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LCD TV

LA40F81BD
LA46F81BD
LA52F81BD

Owner's Instructions

Before operating the unit,
please read this manual thoroughly,
and retain it for future reference.

ON-SCREEN MENUS
PC DISPLAY
PICTURE IN PICTURE (PIP)
TELETEXT

Precautions When Displaying a Still Image

A still image may cause permanent damage to the TV screen.

- Do not display a still image on the LCD panel for more than 2 hours as it can cause screen image retention.

This image retention is also known as "screen burn".

To avoid such image retention, reduce the degree of brightness and contrast of the screen when displaying a still image.

-  Watching the LCD TV in 4:3 format for a long period of time may leave traces of borders displayed on the left, right and center of the screen caused by the difference of light emission on the screen.
Playing a DVD or a game console may cause a similar effect to the screen.
Damages caused by the above effect are not covered by the Warranty.
- Displaying still images from Video games and PC for longer than a certain period of time may produce partial after-images.
To prevent this effect, reduce the 'brightness' and 'contrast' when displaying still images.

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Symbols



List of Parts

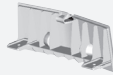
Please make sure the following items are included with your LCD TV.
If any items are missing, contact your dealer.



Remote Control &
Batteries
(AAA x 2)



Power Cord



Cover-Bottom



Cleaning Cloth

♦ Owner's Instructions

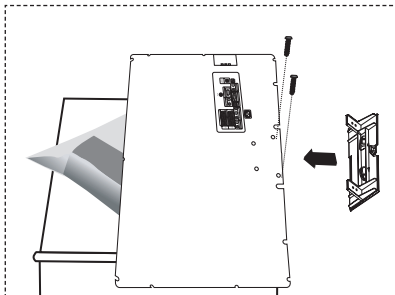
♦ Warranty card

♦ Safety Guide

♦ Registration Cards

➤ Warranty card / Safety Guide / Registration Cards (Not available in all locations)

Installing the Wall Mount Kit



Wall mount items (sold separately) allow you to mount the TV on the wall.

For detailed information on installing the wall mount, see the instructions provided with the Wall Mount items. Contact a technician for assistance when installing the wall mounted bracket.

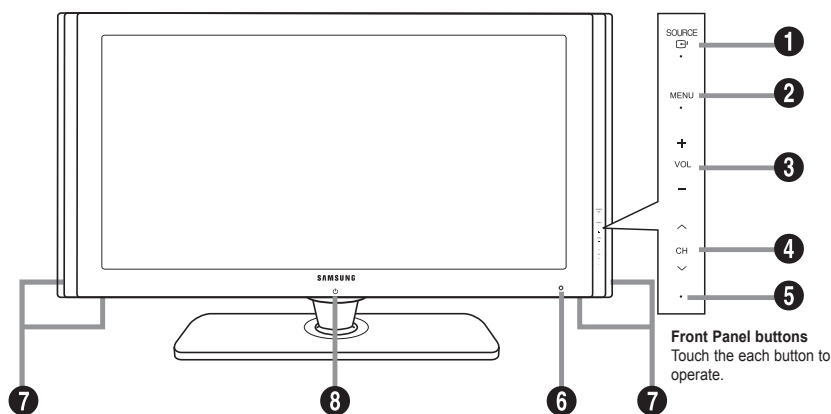
Samsung Electronics is not responsible for any damage to the product or injury to yourself or others if you elect to install the TV on your own.



Do not install your Wall Mount Kit while your TV is turned on. It may result in personal injury due to electric shock

➤ Remove the stand and cover the bottom hole with a cap and fasten with two screws.

Viewing the Control Panel



➤ The product colour and shape may vary depending on the model.

1 SOURCE

Toggles between all the available input sources (TV, AV1, AV2, S-Video, Component1, Component2, PC, HDMI1, HDMI2/DVI, HDMI3 USB). In the on-screen menu, use this button as you use the **ENTER/OK** button on the remote control.

2 MENU

Press to see an on-screen menu of your TV's features.

3 - VOL +

Press to decrease or increase the volume. In the on-screen menu, use the **- VOL +** buttons as you use the ◀ and ▶ buttons on the remote control.

4 ∨ CH ∧

Press to change channels. In the on-screen menu, use the ∨ CH ∧ buttons as you use the ▼ and ▲ buttons on the remote control. (Without the Remote Control, you can turn on the TV by using the Channel buttons.)

5 Power Indicator

Blinks and turns off when the power is on and lights up in stand-by mode.

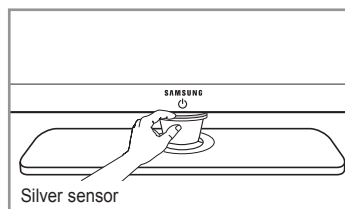
6 Remote Control Sensor

Aim the remote control towards this spot on the TV.

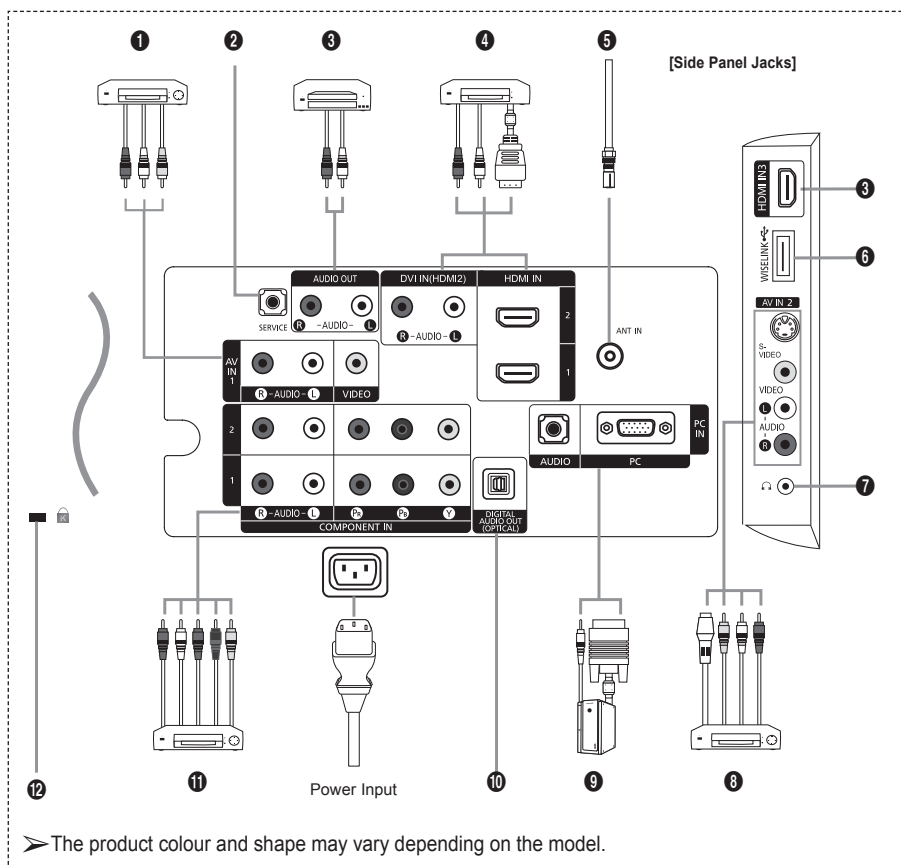
7 Speakers

8 (Power)

Touch the silver sensor below the () mark to turn the TV on and off.



Viewing the Connection Panel



- Whenever you connect an external device to your TV, make sure that power on the unit is turned off.
- The product colour and shape may vary depending on the model.

1 VIDEO / AUDIO L/R

Video and audio inputs for external devices, such as a camcorder or VCR.

2 SERVICE

- Connector for service.
- Connect the serial jack between the electro-motion wall mount bracket and your TV when you want to adjust the TV viewing angle using your remote control.

3 Connecting external Audio Devices

Connect RCA audio signals from the TV to an external source, such as Audio equipment.

4 HDMI IN 1, HDMI IN 2, HDMI IN 3

- Connect to the HDMI jack of a device with HDMI output. These inputs can also be used as a DVI connection with separate analog audio inputs. An optional HDMI/DVI cable will be necessary to make this connection. When using the optional HDMI/DVI adapter, the DVI analog audio inputs on your TV allow you to receive left and right audio from your DVI device. (Not compatible with PC)
- When connecting this product via HDMI or DVI to a Set Top Box, DVD Player or Games Console etc, make sure that it has been set to a compatible video output mode as shown in the table below. Failure to observe this may result in picture distortion, image breakup or no picture.
- Do not attempt to connect the HDMI/DVI connector to a PC or Laptop Graphics Card. (This will result in a blank screen being displayed)

DVI IN (HDMI 2) AUDIO L/R

DVI audio outputs for external devices.

The external devices that support lower version HDMI mode may not implement sound output for the TV with the latest HDMI version (HDMI 1.3.) In this case, connect to HDMI IN2 and DVI IN (HDMI 2) "R-AUDIO-L" on the back panel of the TV.

Part of lower version HDMI cables may cause annoying flickers or no screen display in this case use the cable that supports the latest HDMI version (HDMI 1.3)

Supported modes for HDMI and Component

	480i	480p	576i	576p	720p	1080i	1080p
HDMI/DVI 50Hz	X	X	X	O	O	O	O
HDMI/DVI 60Hz	X	O	X	X	O	O	O
Component	O	O	O	O	O	O	O

5 ANT IN

75Ω Coaxial connector for Aerial/Cable Network.

6 WISELINK

- Connect a USB mass storage device to view photo files (JPEG) and play audio files (MP3)

7 Headphones jack

You can connect a set of headphones if you wish to watch a television programme without disturbing the other people in the room.

➤ Prolonged use of headphones at a high volume may damage your hearing.

8 S-VIDEO or VIDEO / AUDIO L/R

- Video (S-Video or Video) and audio inputs for external devices, such as a camcorder or VCR.

9 PC IN / AUDIO

Connect to the video and audio output jack on your PC.

10 DIGITAL AUDIO OUT (OPTICAL)

Connect to a Digital Audio Component. According to the received audio signal, optical output is selected by Dolby or PCM signal. The level of sound can change according to received signal and sound level's difference can be.

11 COMPONENT IN 1, COMPONENT IN 2

Audio (AUDIO L/R) and video (Y/PB/PR) inputs for Component.

12 Kensington Lock (depending on the model)

- The Kensington lock (optional) is a device used to physically fix the system when used in a public place.

- If you want to use a locking device, contact the dealer where you purchased the TV.

- The place of the Kensington Lock may be different depending on its model.

Viewing the Remote Control

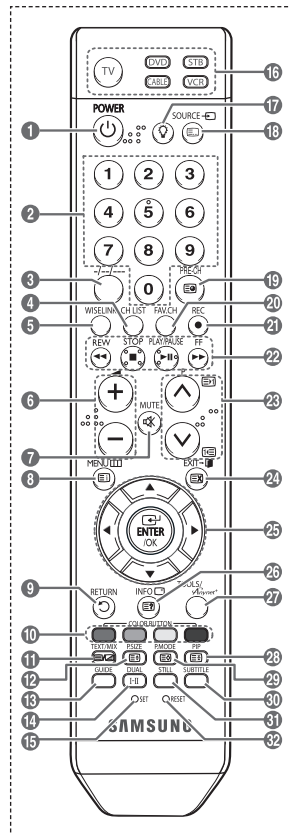
- ◆ This is a special remote control for the visually impaired persons, and has Braille points on the Power, Channel, Volume, STOP, and PLAY/PAUSE buttons.
- ◆ The performance of the remote control may be affected by bright light.

- ❶ POWER button (turns the TV on and off)
- ❷ Number buttons for direct channel access
- ❸ One/Two/Three-digit channel selection
- ❹ Channel control button (Refer to page 16)
- ❺ This function enables you to view and play photo (JPEG) and audio files (MP3) from an external device. (See page 52(JPEG), 60 (MP3))
- ❻ ⊕ Volume increase
⊖ Volume decrease
- ❼ Temporary sound switch-off
- ❽ Displays the main on-screen menu
- ❾ Returns to the previous menu
- ❿ Picture size selection
- ⓫ Electronic Program Guide (EPG) display
- ⓬ Sound mode selection
- ⓭ Remote control setup
- ⓮ Selects a target device to be controlled by the Samsung remote control (TV, DVD, STB, CABLE, VCR)
- ⓯ Press to backlight the VOL, CH, and the active source button (TV, DVD, CABLE, STB, VCR) on the remote.
- ⓰ Available source selection
- ⓱ Previous channel
- ⓲ Press to switch to your favourite channels.
- ⓳ Records for Live Broadcasting
- ⓴ VCR/DVD Function (Rewind, Stop, Play/Pause, Fast/Forward)
- ⓵ ⊙ Next channel
⊙ Previous channel
- ⓶ Exit the on-screen menu
- ⓷ Control the cursor in the menu
- ⓸ Use to see information on the current broadcast
- ⓹ TOOLS : Use to quickly select frequently used functions.
Anynet+ : Runs the Anynet+ view functions and sets up Anynet+ devices.
- ⓺ Picture-In-Picture On/Off
- ⓻ Picture effect selection (Refer to page 26)
- ⓼ Digital subtitle display
- ⓽ Picture freeze
- ⓿ If your remote control is not functioning properly, take out the batteries and press the reset button for about 2~3 seconds.
Reinsert the batteries and try using the remote control again.

Teletext Functions

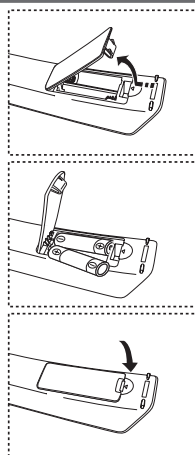
(Refer to page 68)

- Ⓢ Teletext index
- Ⓣ Exit from the teletext display (depending on the model)
- Ⓤ Fasttext topic selection
- Ⓥ Teletext display/mix both teletext information and the normal broadcast
- Ⓦ Teletext size
- Ⓧ Teletext mode selection (LIST/FLOF)
- Ⓨ Teletext sub page
- Ⓩ P ⊙ : Teletext next page
P ⊙ : Teletext previous page
- ⓐ Teletext cancel
- ⓑ Teletext reveal
- ⓓ Teletext hold
- ⓔ Teletext store



Installing Batteries in the Remote Control

- 1 Lift the cover at the back of the remote control upward as shown in the figure.
 - 2 Install two AAA size batteries.
 - Make sure to match the “+” and “-” ends of the batteries with the diagram inside the compartment.
 - 3 Replace the cover.
 - Remove the batteries and store them in a cool, dry place if you won't be using the remote control for a long time. The remote control can be used up to about 23 feet from the TV.
(Assuming typical TV usage, the batteries last for about one year.)
-
- If the remote control doesn't work, check the following:
 1. Is the TV power on?
 2. Are the plus and minus ends of the batteries reversed?
 3. Are the batteries drained?
 4. Is there a power outage, or is the power cord unplugged?
 5. Is there a special fluorescent light or neon sign nearby?
-



Switching On and Off

The main lead is attached to the rear of your set.

- 1 Plug the mains lead into an appropriate socket.
 - The standby indicator lights up on the front of the set.
- 2 Press the  button on the front of the set.
 - You also can press the **POWER**  button or the **TV** button on the remote control to turn the TV on.
 - The programme that you were watching last is reselected automatically.
- 3 Press the numeric button (0~9) or channel up/down (⏮/⏭) button on the remote control or button on the right side of the set.
 - When you switch the set on for the very first time, you will be asked to choose language in which the menus are to be displayed.
- 4 To switch your set off, press the **POWER**  button again.

Placing Your Television in Standby Mode

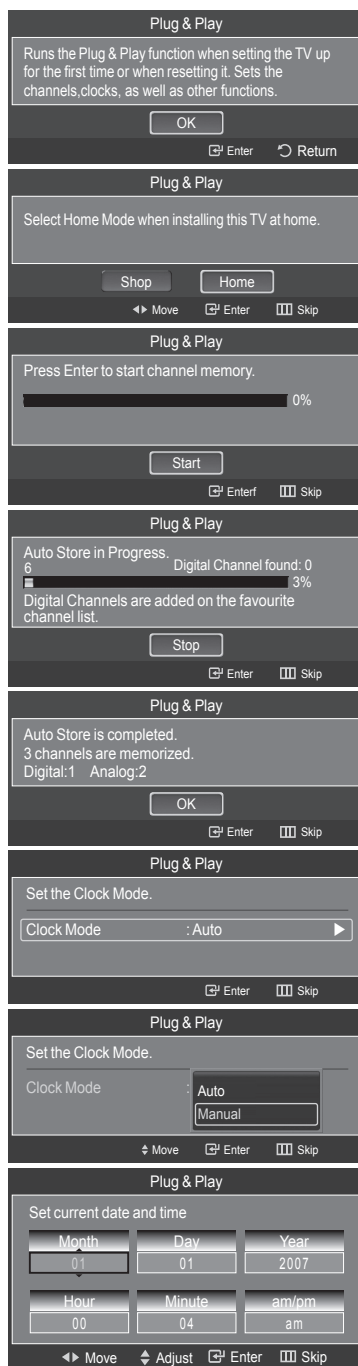
Your set can be placed in standby mode in order to reduce the power consumption. The standby mode can be useful when you wish to interrupt viewing temporarily (during a meal, for example).

- 1 Press the **POWER**  button on the remote control.
 - The screen is turned off and a red standby indicator appears on the front of your set.
- 2 To switch your set back on, simply press the **POWER**  , numeric buttons (0~9), TV button or channel up/down (⏮/⏭) button again.
 - Do not leave your set in standby mode for long periods of time (when you are away on holiday, for example). It is best to unplug the set from the mains and aerial.

Plug & Play Feature

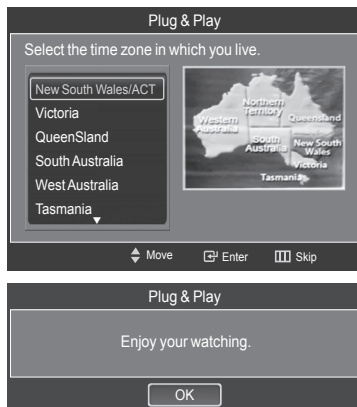
When the TV is initially powered on, basic settings proceed automatically:

- 1 Press the **POWER** button on the remote control.
The message **Runs the Plug & Play function when setting the TV up for the first time or when resetting it. Sets the channels, the clocks, as well as other functions.** is automatically displayed.
- 2 The message **Select Home Mode when installing this TV at home.** is automatically displayed.
- 3 Press the **◀** or **▶** button to select **Shop** or **Home**, then press the **ENTER/OK** button.
 - The default selection is **Home**.
 - We recommend setting the TV to Home mode for the best picture in your home environment.
 - Shop mode is only intended for use in retail environments.
 - If the unit is accidentally set to Shop mode, and you want to return to Dynamic (Home) mode, press the Volume button and then hold down the **MENU** button for five seconds on the TV panel.
- 4 The TV will begin memorizing all of the available channels.
After all the available channels are stored, the Auto program menu reappears.
Press the **ENTER/OK** button when channel memorization is complete.
The **Clock Mode** menu is displayed.
 - To stop the search before it has finished, press the **ENTER/OK** button with stop selected.
- 5 Press the **ENTER/OK** button.
Press the **▲** or **▼** button to select **Manual** for setting the current time manually, then press the **ENTER/OK** button.
The message **Set current date and time.** is displayed.
 - If you select **Auto**. **Select the time zone in which you live.** is displayed, then go to step 8.
- 6 Press the **◀** or **▶** button to move to **Month**, **Day**, **Year**, **Hour**, **Minute** or **am/pm**. Set the date and time you want by pressing the **▲** or **▼** button, then press the **ENTER/OK** button.
 - You can set the month, day, year, hour, and minute directly by pressing the number buttons on the remote control.
- 7 The message **Enjoy your watching.** is displayed.
When you have finished, press the **ENTER/OK** button.
 - Even if the **ENTER/OK** button is not pressed, the message will automatically disappear after several seconds.



Setting the Clock Automatically

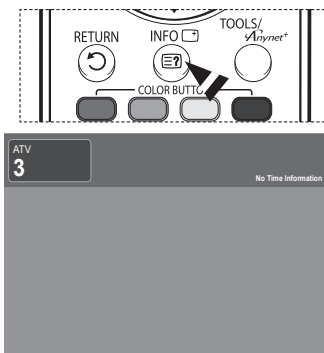
- 8 Press the **ENTER/OK** button.
Press the **▲** or **▼** button to select **Off** or **On**, then the **ENTER/OK** button.
The message **Select the time zone in which you live.** is displayed.
- 9 Press the **▲** or **▼** button to highlight the time zone for your local area (and to move the highlight to the appropriate time zone on the map of the United States). Press the **ENTER/OK** button.
If clock is not automatically set, see pages 35~36. to set the clock.
- 10 The message **Enjoy your watching.** is displayed.
When you have finished, press the **ENTER/OK** button.
➤ Even if the **ENTER/OK** button is not pressed, the message will automatically disappear after several seconds.



Viewing the Display

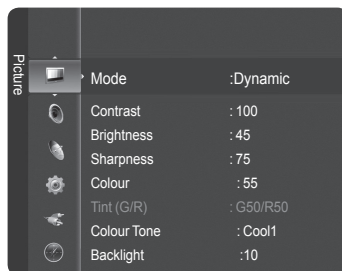
The display identifies the current channel and the status of certain audio-video settings.

Press the **INFO** button on the remote control.



Viewing the Menus

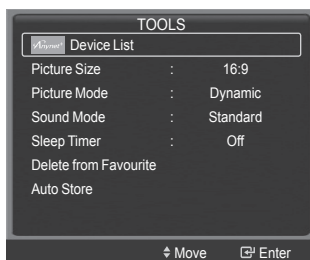
- 1 With the power on, press the **MENU** button.
The main menu will appear at the bottom of the screen.
There are seven menu groups: **Picture**, **Sound**, **Channel**, **Setup**, **Input**, **Guide**, and **PIP**.
- 2 Press the **▲** or **▼** button, then press the **ENTER/OK** button to select an item you want in the menu. Press the **▲/▼/◀/▶/ENTER/OK** button to display, change, or use the selected items.
- 3 Press the **EXIT** button to exit.



Using the TOOLS Button

The Tools button allows you to display frequently used Menu and Connection items with a Single button press.

- 1 Press the **TOOLS** button.
The **TOOLS** menu will appear.
- 2 Press the **▲/▼** button to select a menu, then press the **ENTER/OK** button.
- 3 Press the **▲/▼/◀/▶/ENTER/OK** buttons to display, change, or use the selected items.
For a more detailed description of each function, refer to the corresponding page.
 - ◆ **Device List**, see page 63
 - Picture Setting**, see page 26
 - Sound Setting**, see page 33
 - Sleep Timer**, see page 36
 - Delete Favourite Channel**, see page 20
 - Auto Store**, see page 16

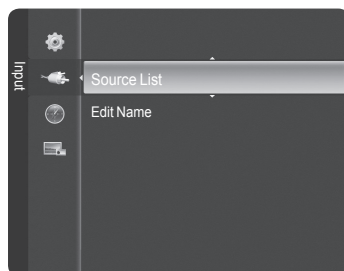


Viewing External Signal Sources

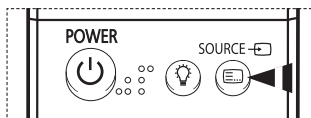
You can switch between viewing signals from connected equipment, such as a VCR, DVD, Set-Top Box, and the TV source (broadcast or cable).

- 1 Press the **MENU** button to display the menu.
- 2 Press the **▲** or **▼** button to select **Input**, then press the **ENTER/OK** button.
- 3 Press the **ENTER/OK** button again to select **Source List**.
- 4 Press the **▲** or **▼** button to select the signal source, then press the **ENTER/OK** button.

Available signal sources: **TV**, **AV1**, **AV2**, **S-Video**, **Component1**, **Component2**, **PC**, **HDMI1**, **HDMI2/DVI**, **HDMI3**, **USB**



- You can select these options simply by pressing the **SOURCE** button on the remote control.



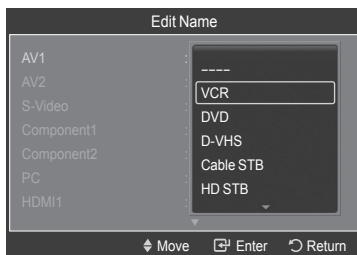
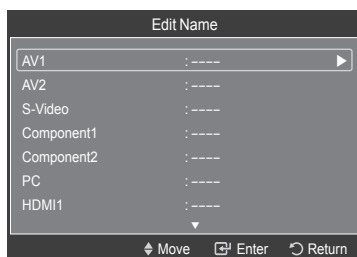
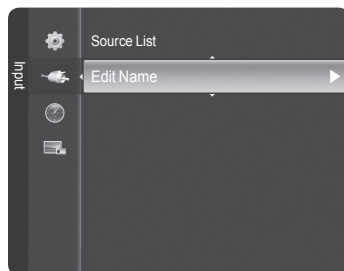
Editing Device Names

You can give a name to the external source.

- 1 Press the **MENU** button to display the menu.
- 2 Press the **▲** or **▼** button to select **Input**, then press the **ENTER/OK** button.
- 3 Press the **▲** or **▼** button to select **Edit Name**, then press the **ENTER/OK** button.
- 4 Press the **▲** or **▼** button to select the external source to be edited, then press the **ENTER/OK** button.
- 5 Select the required device by pressing **▲** or **▼**, then press the **ENTER/OK** button.

Available device names: **VCR, DVD, D-VHS, Cable STB, HD STB, Satellite STB, PVR STB, AV Receiver, DVD Receiver, Game, Camcorder, DVD Combo, DVD HDD Recorder, PC, Internet TV Recv., Interactive TV Recv., VOD STB, TV.**

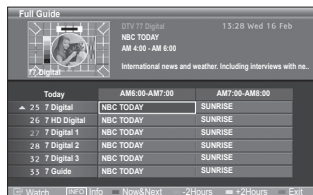
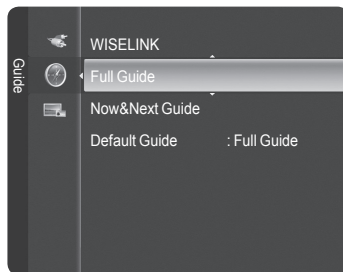
- 6 Press the **EXIT** button to exit.
 - When a PC with a resolution of 1920 x 1080@60Hz is connected to the HDMI IN 1 port, you should set the HDMI1 mode to PC in the Source List of the Input mode. If the HDMI1 mode is not PC, it works depending on the TV setting.



Setting the Guide

You can set the guide as your preference.

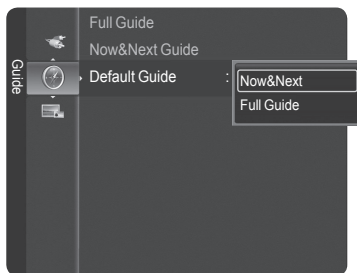
- 1 Press the **MENU** button to display the menu.
- 2 Press the **▲** or **▼** button to select **Guide**. Press the **ENTER/OK** button.
- 3 Select your required guide (**Now & Next Guide** or **Full Guide**) by pressing the **▲** or **▼** button.
- 4 Press the **ENTER/OK** button.
- 5 Select a programme of your choice by pressing the **▲**, **▼**, **◀**, or **▶** button.
- 6 Press the **INFO** button to display information about the highlighted programme.
- 7 Press the red button to exchange **Now & Next Guide** or **Full Guide**.
- 8 Press the **EXIT** button or blue button to exit.



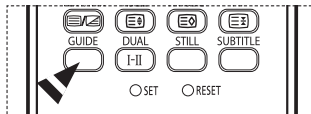
Setting the Default Guide

You can preset the default guide style.

- 1 Press the **MENU** button to display the menu.
- 2 Press the **▲** or **▼** button to select **Guide**. Press the **ENTER/OK** button.
- 3 Press the **▲** or **▼** button to select **Default Guide**, then press the **ENTER/OK** button.
- 4 Select **Now/Next** or **Full Guide** using the **▲** or **▼** button, and press the **ENTER/OK** button.
- 5 Press the **EXIT** button to exit.



- You can select these options by simply pressing the **GUIDE** button on the remote control.

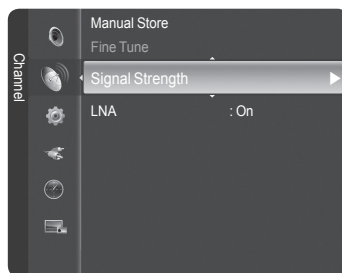


Checking the Digital-Signal Strength - Digital

Unlike analog channels, which can vary in reception quality from “snowy” to clear, digital (HDTV) channels have either perfect reception quality or you will not receive them at all. So, unlike analog channels, you cannot fine tune a digital channel.

You can, however, adjust your antenna to improve the reception of available digital channels.

- 1 Press the **MENU** button to display the menu.
- 2 Press the **▲** or **▼** button to select **Channel**, then press the **ENTER/OK** button.
- 3 Press the **▲** or **▼** button to select **Signal Strength**, then press the **ENTER/OK** button.
- 4 If the signal strength meter indicates that the signal is weak, physically adjust your antenna to increase the signal strength.
Continue to adjust the antenna until you find the best position with the strongest signal.
- 5 Press the **EXIT** button to exit.

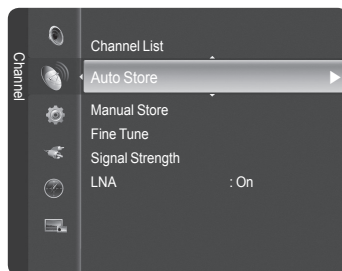


Storing Channels Automatically

You can scan for the frequency ranges available to you (availability depends on your country).

Automatically allocated programme numbers may not correspond to actual or desired programme numbers. However you can sort numbers manually and clear any channels you do not wish to watch.

- 1 Press the **MENU** button to display the menu.
- 2 Press the **▲** or **▼** button to select **Channel**, then press the **ENTER/OK** button.
- 3 Press the **▲** or **▼** button to select **Auto Store**, then press the **ENTER/OK** button.
- 4 Press the **ENTER/OK** button again to start the search.
The search will end automatically.
➤ To stop the search before it has finished, press the **MENU** or the **ENTER/OK** button.



Storing Channels Manually

You can store television channels, including those received via cable networks.

When storing channels manually, you can choose:

- ◆ Whether or not to store each of the channels found.
- ◆ The programme number of each stored channel which you wish to identify.

- 1 Press the **MENU** button to display the menu.
- 2 Press the **▲** or **▼** button to select **Channel**, then press the **ENTER/OK** button.
- 3 Press the **▲** or **▼** button to select **Manual Store**, then press the **ENTER/OK** button.
- 4 Select the required option by pressing the **▲** or **▼** button, then press the **ENTER/OK** button.
 - On digital mode, you can choose **Digital Channel**, on analog mode, you can choose **Digital Channel** and **Analog Channel**.

- 5 When you are satisfied with your setting, press the **ENTER/OK** button.

- 6 Press the **EXIT** button to exit.

- ◆ **Programme** (Programme number to be assigned to a channel)

- Press the **▲** or **▼** button until you find the correct number.
 - You can also select the channel number directly by pressing the numeric buttons (0~9).

- ◆ **Colour System: Auto/PAL**

- Press the **▲** or **▼** button to select the required colour standard.

- ◆ **Sound System: DK/BG/I**

- Press the **▲** or **▼** button to select the required sound standard.

- ◆ **Channel** (When you know the number of the channel to be stored)

- Press the **▲** or **▼** button to select **C** (Air channel) or **S** (Cable channel).
- Press the **►** button, then press the **▲** or **▼** button to select the required number.
 - You can also select the channel number directly by pressing the numeric buttons (0~9).
 - If there is abnormal sound or no sound, reselect the sound standard required.

- ◆ **Search** (When you do not know the channel numbers)

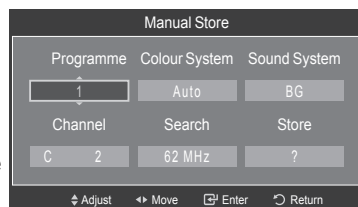
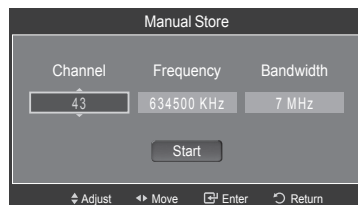
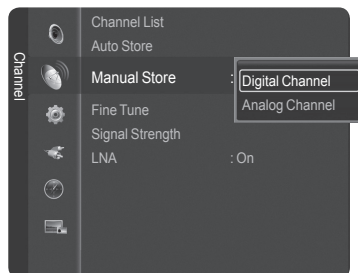
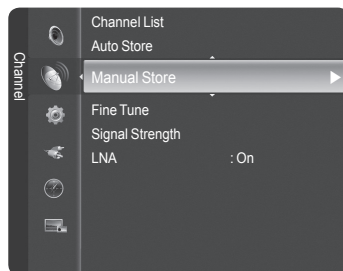
- Press the **▲** or **▼** button to start the search.
- The tuner scans the frequency range until the first channel or the channel that you selected is received on the screen.

- ◆ **Store** (When you store the channel and associated programme number)

- Set to **OK** by pressing the **ENTER/OK** button.

Channel mode

- ◆ **P** (Programme mode): When completing tuning, the broadcasting stations in your area have been assigned to position numbers from P00 to P99. You can select a channel by entering the position number in this mode.
- ◆ **C** (Air channel mode): You can select a channel by entering the assigned number to each air broadcasting station in this mode.
- ◆ **S** (Cable channel mode): You can select a channel by entering the assigned number for each cable channel in this mode.



Managing Channels

Using this menu, you can Add/Delete or set Favourite channels and use the program guide for digital broadcasts.

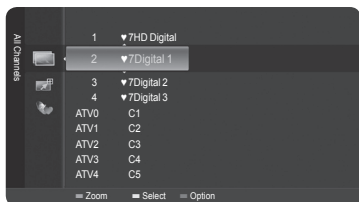
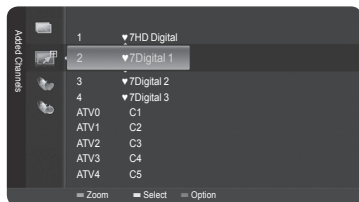
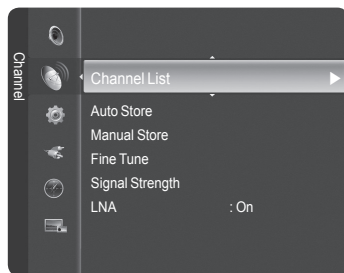
Viewing All Channels

Show all currently available channels.

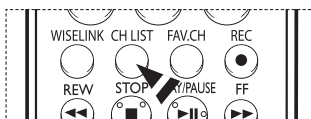
To use the Channel List function, first run Auto Program.

- 1 Press the **MENU** button to display the menu.
- 2 Press the **▲** or **▼** button to select **Channel**, then press the **ENTER/OK** button.
- 3 Press the **▲** or **▼** button to select **Channel List**, then press the **ENTER/OK** button.
- 4 Press the **◀** button to select **Added Channels**.
- 5 Press the **▲** or **▼** button to select **All Channels**, then press the **ENTER/OK** button.
Shows all currently available channels.
- 6 Press the **▲** or **▼** button to select a channel to view, then press the **ENTER/OK** button.
You can watch the selected channel.

- You can press Number buttons on Remote control for direct channel access, press the same Number button again to switch between digital channel and ATV channel.

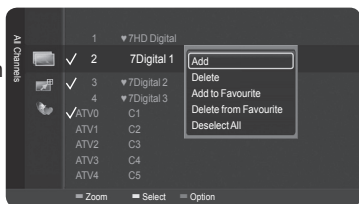


- You can select these options simply by pressing the **CH LIST** button on the remote control.



Using the Colour buttons on the Remote with the Channel List

- ◆ **Green (Zoom):** Enlarges or shrinks a channel number.
 - ◆ **Yellow (Select):** Selects multiple channel lists.
 - ◆ **Blue (Option):** Displays the Add (or Delete), Add Favourite (or Delete Favourite), Timer Viewing, and Channel Name Edit menus.
- A gray-coloured channel refers to a deleted channel. The Add menu only appears for deleted channels.
- If you select multiple channel include "favourite channels", "delete channel etc. channels" and other channels, you can choose "Add to Favourite or Delete from Favourite or Add or Deselect All" etc.

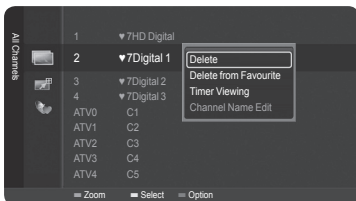
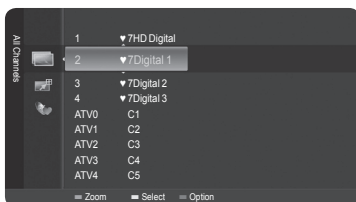
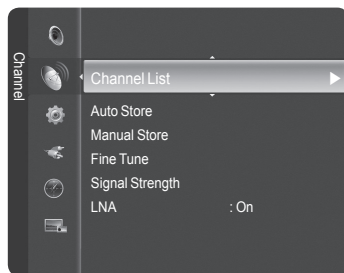


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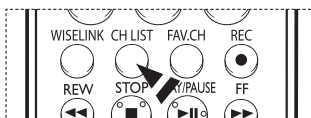
Adding and Erasing Channels

You can add or delete a channel to display the channels you want.

- 1 Press the **MENU** button to display the menu.
- 2 Press the **▲** or **▼** button to select **Channel**, then press the **ENTER/OK** button.
- 3 Press the **▲** or **▼** button to select **Channel List**, then press the **ENTER/OK** button.
- 4 Press the **◀** button to select **Added Channels**.
- 5 Press the **▲** or **▼** button to select **All Channels**, then press the **ENTER/OK** button.
Shows all currently available channels.
- 6 Press the **▲** or **▼** button to select a channel to add, then press the blue button.
- 7 Press the **ENTER/OK** button to select **Add**.
➤ All added channels will be shown on **Added Channels** menu.
- 8 Press the **▲** or **▼** button to select a channel to delete, then press the blue button.
Press the **ENTER/OK** button to select **Delete**.
- 9 Press the **EXIT** button to exit.
➤ You can also delete a channel in the **Added Channels** menu in the same manner.



- You can select these options simply by pressing the **CH LIST** button on the remote control.

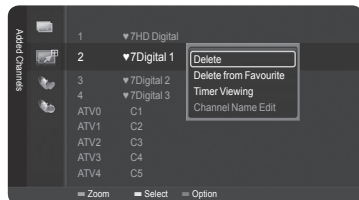
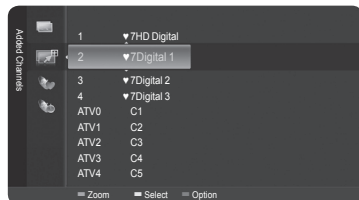
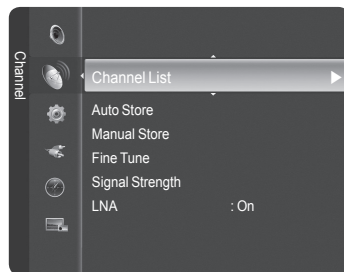


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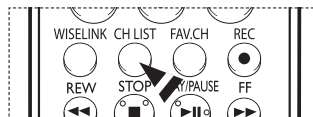
Setting Your Favourite Channels

You can set channels you watch frequently as favourites.

- 1 Press the **MENU** button to display the menu.
 - 2 Press the **▲** or **▼** button to select **Channel**, then press the **ENTER/OK** button.
 - 3 Press the **▲** or **▼** button to select **Channel List**, then press the **ENTER/OK** button.
 - 4 Press the **◀** button to select Added Channels.
 - 5 Press the **▲** or **▼** button to select Favourite, then press the **ENTER/OK** button. You can view all favourite channels.
 - 6 Press the **▲** or **▼** button to select **Added Channels**, then press the **ENTER/OK** button.
 - 7 Press the **▲** or **▼** button to select a channel as a favourite channel, then press the blue button.
 - 8 Press the **▲** or **▼** button to select **Add to Favourite**, then press the **ENTER/OK** button.
The "♥" symbol will be displayed and the channel will be set as a favourite.
 - 9 To cancel your favourite channel selection, press the blue button when a favourite channel is selected. Press the **▲** or **▼** button to select **Delete from Favourite**, then press the **ENTER/OK** button. The channel is deleted from Favourites and the "♥" mark also disappears.
 - 10 Press the **EXIT** button to exit.
- You can also Add or Delete a channel from Favourites in the **All Channels** menu in the same manner.
 - Only memorized channels can be set as favourite channels.
 - All favourite channels will be shown on Favourite menu.



- You can select these options simply by pressing the **CH LIST** button on the remote control.

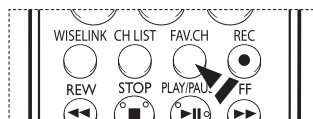


Easy Setting

- 1 Press the **TOOLS** button on the remote control.
- 2 Press the **▲/▼** button to select **Add to Favourite** or **Delete from Favourite**, then press the **ENTER/OK** button. The current channel is added to or deleted from Favourites.



- To select the favourite channels you have set up, press the **FAV.CH** button on the remote control.



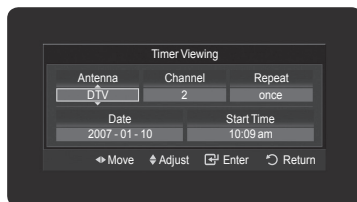
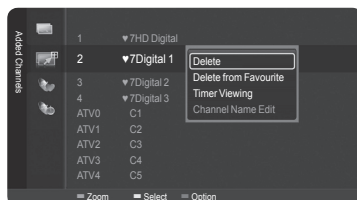
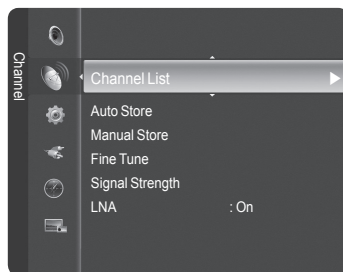
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Reserving a Program (Time Viewing)

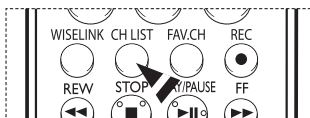
If you reserve a program you want to watch, the channel is automatically switched to the reserved channel in the Channel List even when you are watching another channel.

To reserve a program set the current time first. See pages 35–36. Reserved channels can only be set if they are in the Channel List (See page 18).

- 1 Press the **MENU** button to display the menu.
 - 2 Press the **▲** or **▼** button to select **Channel**, then press the **ENTER/OK** button.
 - 3 Press the **▲** or **▼** button to select **Channel List**, then press the **ENTER/OK** button.
 - 4 Press the **▲** or **▼** button to select a channel, then press the Blue (Options) button.
 - 5 Press the **▲** or **▼** button to select **Timer Viewing**, then press the **ENTER/OK** button.
The Reserve a Program (Timer Viewing) screen appears.
 - 6 Press the **▲/▼/◀/▶** buttons to reserve a program and then press the **ENTER/OK** button.
Reserving a program has been completed.
 - 7 Press the **EXIT** button to exit.
- You can also reserve a program in the **All Channels** or **Favourite** menus using the same procedures.
- For information on how to confirm a viewing reservation, refer to page 22.



- You can select these options simply by pressing the **CH LIST** button on the remote control.

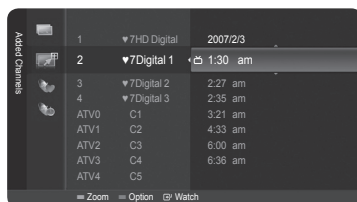


Digital Program Guide and Viewing Reservation

When a digital channel is selected, and you press the **▶** button, the Program Guide for the channel appears. You can reserve a program according to the procedures described above.

📺: A program currently being broadcast.

🕒: A reserved program

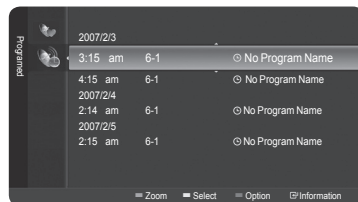
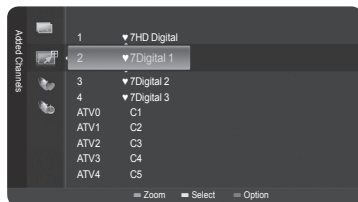
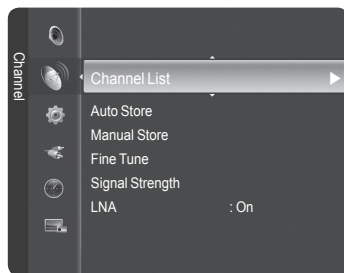


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Confirming a Viewing Reservation

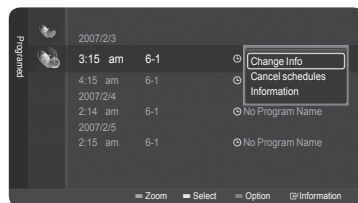
You can view, modify or delete a reservation.

- 1 Press the **MENU** button to display the menu.
- 2 Press the **▲** or **▼** button to select **Channel**, then press the **ENTER/OK** button.
- 3 Press the **▲** or **▼** button to select **Channel List**, then press the **ENTER/OK** button.
- 4 Press the **◀** button to select **Added Channels**.
- 5 Press the **▲** or **▼** button to select **Programed**, then press the **ENTER/OK** button.
You can view reservations.



Modifying a viewing reservation

- 6 To select a reservation item to be modified, press the **▲** or **▼** button and then press the blue button.
- 7 Press the **ENTER/OK** button to select **Change Info**.
- 8 Press the **▲/▼/◀/▶** buttons to change a reservation setting and then press the **ENTER/OK** button.
The reservation modification is applied.



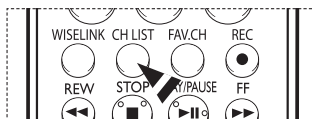
Cancelling a reservation

- 6 To select a reservation item to be cancelled, press the **▲** or **▼** button, and then press the blue button.
- 7 Press the **▲** or **▼** button to select **Cancel schedules**, then press the **ENTER/OK** button.
- 8 Press the **◀** or **▶** button to select **OK**, then press the **ENTER/OK** button.
The viewing reservation has been cancelled.
- 9 Press the **EXIT** button to exit.

Programed Menu

- ◆ **Change Info:** Select to change a viewing reservation.
- ◆ **Cancel schedules:** Select to cancel a viewing reservation.
- ◆ **Information:** Select to view a viewing reservation.

➤ You can select these options simply by pressing the **CH LIST** button on the remote control.

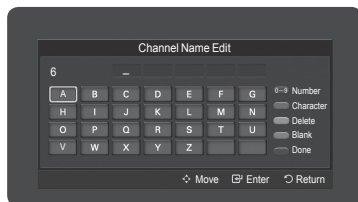
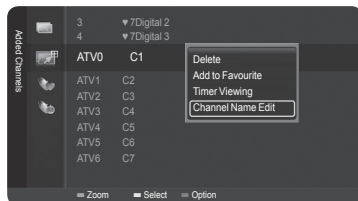
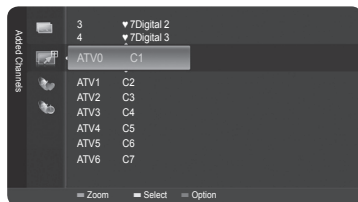
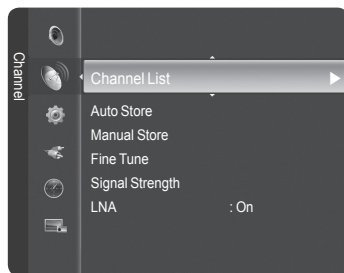


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Labeling Channels - Analog

Channels can be labeled so that their call letters appear whenever the channel is selected.

- 1 Press the **MENU** button to display the menu.
 - 2 Press the **▲** or **▼** button to select **Channel**, then press the **ENTER/OK** button.
 - 3 Press the **▲** or **▼** button to select **Channel List**, then press the **ENTER/OK** button.
 - 4 Press the **▲** or **▼** button to select the channel to be assigned a new name, then press the blue button.
 - 5 Press the **▲** or **▼** button to select **Channel Name Edit**, then press the **ENTER/OK** button.
 - 6 Press the **▲/▼/◀/▶** button to select a letter, then press the **ENTER/OK** button.
 - ◆ **Numeric buttons:** You can enter numbers.
 - ◆ **Red button:** You can switch between English and Characters.
 - ◆ **Green button:** You can delete an already entered character.
 - ◆ **Yellow button:** You can enter a blank space.
 - ◆ **Blue button:** Press this button to finish renaming a channel.
 - 7 When you have finished, press the blue button to assign the new name.
 - 8 Press the **EXIT** button to exit.
- The names of digital broadcasting channels are automatically assigned and thus cannot be assigned by users.

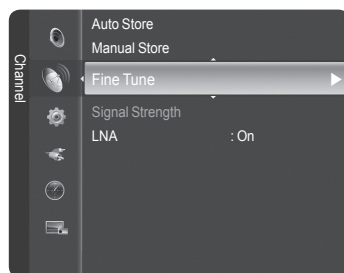


Fine Tuning Channel Reception

If the reception is clear, you do not have to fine tune the channel, as this is done automatically during the search and store operation.

If the signal is weak or distorted, you may have to fine tune the channel manually.

- 1 Press the **MENU** button to display the menu.
- 2 Press the **▲** or **▼** button to select **Channel**, then press the **ENTER/OK** button.
- 3 Press the **▲** or **▼** button to select **Fine Tune**, then press the **ENTER/OK** button.
- 4 To obtain a sharp, and clear picture and good sound quality, press the **◀** or **▶** button until you reach the optimal setting. Press the **ENTER/OK** button.
 - To reset the fine tuning to **0**, select **Reset** by pressing the **▲** or **▼** button. Press the **ENTER/OK** button.
- 5 Press the **EXIT** button to exit.
 - Fine tuned channels that have been saved are marked with an asterisk ****** on the right-hand side of the channel number in the channel banner.

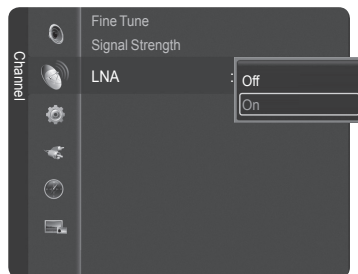


LNA (Low Noise Amplifier)

This function is very useful in the situation that the TV is used in weak signal.

LNA amplifies the TV signal in the weak signal area, a low-noise preamplifier boosts the incoming signal.

- 1 Press the **MENU** button to display the menu.
- 2 Press the **▲** or **▼** button to select **Channel**, then press the **ENTER/OK** button.
- 3 Press the **▲** or **▼** button to select **LNA**, then press the **ENTER/OK** button.
- 4 Select **Off** or **On** by pressing the **▲** or **▼** button, then press the **ENTER/OK** button.
- 5 Press the **EXIT** button to exit.
 - Depending on areas, factory mode of LNA, will be set up as On or Off.



Changing the Picture Standard

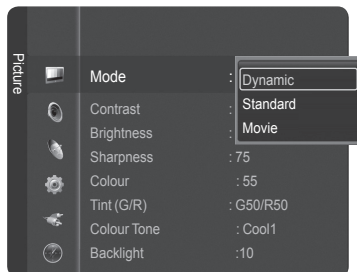
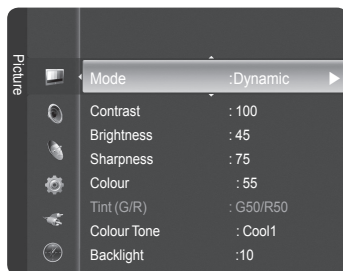
You can select the type of picture which best corresponds to your viewing requirements.

- 1 Press the **MENU** button to display the menu.
- 2 Press the **ENTER/OK** button to select **Picture**.
- 3 Press the **ENTER/OK** button again to select **Mode**.
- 4 Select the required mode by pressing the **▲** or **▼** button, then press the **ENTER/OK** button.

Available modes: **Dynamic**, **Standard**, **Movie**

➤ The settings values may vary depending on the input source. (ex. RF, Video, Component, PC, or HDMI)

- 5 Press the **EXIT** button to exit.



- You can select these options simply by pressing the **P.MODE** button on the remote control.
- ♦ Choose **Dynamic** for viewing the TV during the day or when there is bright light in the room.
- ♦ Choose **Standard** for general TV watching mode.
- ♦ Choose **Movie** when viewing the movie.

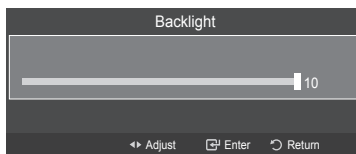
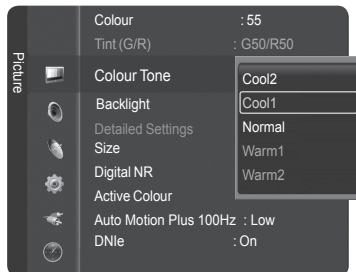
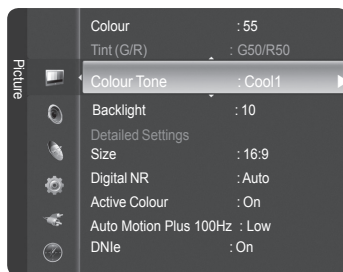


Customizing the Picture Settings

Your television has several setting options that allow you to control the picture quality.

- 1 To select the desired picture effect, follow the "Changing the Picture Standard" instructions number 1 to 3 on page 26.
- 2 Press the ▲ or ▼ button to select a particular item. Press the **ENTER/OK** button.
- 3 Press the ◀ or ▶ button to decrease or increase the value of a particular item. Press the **ENTER/OK** button.
- 4 Press the **EXIT** button to exit.

- ◆ **Contrast:** Adjusts the lightness and darkness between objects and the background.
- ◆ **Brightness:** Adjusts the brightness of the whole screen.
- ◆ **Sharpness:** Adjusts the outline of objects to either sharpen them or make them more dull.
- ◆ **Colour:** Adjusts the colours, making them lighter or darker.
- ◆ **Tint:** Use this function to adjust the colour of objects, making them more red or green for a more natural look when RF(60Hz), AV(60Hz), S-Video(60Hz), component, HDMI signals are input.
- ◆ **Colour Tone:** Cool2/Cool1/Normal/Warm1/Warm2
 - When the picture mode is set to **Dynamic** or **Standard**, **Warm1** and **Warm2** cannot be selected.
- ◆ **Picture Reset: Reset All/Reset Picture Mode**
 - Reset All:** All the picture values return to default settings.
 - Reset Picture Mode:** Current picture values return to default settings.
 - Backlight:** you can adjust the screen brightness by changing the LCD backlight brightness.(0-10)



Configuring Detailed Settings on the Picture

You can set detailed picture settings.

- 1 Press the **MENU** button to display the menu.
- 2 Press the **ENTER/OK** button to select **Picture**.
- 3 Press the **▲** or **▼** button to select **Detailed Settings**, then press the **ENTER/OK** button.
- 4 Select the required option by pressing the **▲** or **▼** button, then press the **ENTER/OK** button.

Available options: **Black Adjust**, **Dynamic Contrast**, **Gamma**, **Colour Space**, **White Balance**, **My Colour Control**, **Edge Enhancement**, **xvYCC**

- 5 When you are satisfied with your setting, press the **ENTER/OK** button.
- 6 Press the **EXIT** button to exit.

- When the picture mode is set to **Standard** or **Movie**, **Detailed Settings** can be selected.
- If **DNLe** is set to Off and the picture mode is in **Dynamic** or **Standard** mode, the **Detailed Settings** cannot be selected.

◆ **Black Adjust: Off/Low/Medium/High**

You can directly select the black level on the screen to adjust the screen depth.

◆ **Dynamic Contrast: Off/Low/Medium/High**

You can adjust the screen contrast so that the optimal contrast is provided.

◆ **Gamma: -3 ~ +3**

You can adjust the middle brightness of pictures.

Press the **◀** or **▶** button until you reach the optimal setting.

◆ **Colour Space**

You can set the colour reproduction space for the input signal to Auto or Wide.

◆ **White Balance: R-Offset/G-Offset/B-Offset/R-Gain/G-Gain/B-Gain/Reset**

You can adjust the colour temperature for more natural picture colours.

R-Offset/G-Offset/B-Offset/R-Gain/G-Gain/B-Gain: Changing the adjustment value will refresh the adjusted screen.

Select the required option by pressing the **▲** or **▼** button, then press the **ENTER/OK** button.

Press the **◀** or **▶** button until you reach the optimal setting.

Reset: The previously adjusted white balance will be reset to the factory defaults.

◆ **My Colour Control: Pink/Green/Blue/White/Reset**

This setting can be adjusted to suit your personal preferences.

Select the Pink, Green, Blue or White by pressing the **▲** or **▼** button, then press the **ENTER/OK** button.

Press the **◀** or **▶** button until you reach the optimal setting.

Reset: The previously adjusted colours will be reset to the factory defaults.

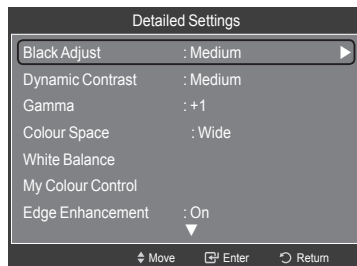
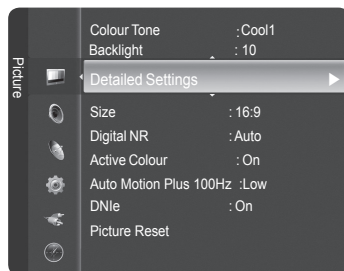
◆ **Edge Enhancement: Off/On**

You can emphasize object boundaries.

◆ **xvYCC: Off/ On**

Setting the xvYCC mode to "On" increases detail and colour space when watching movies from an external devices (ie. DVD player) connected to HDMI or Component IN jacks. You must set the Picture Mode to Movie to enjoy this feature.

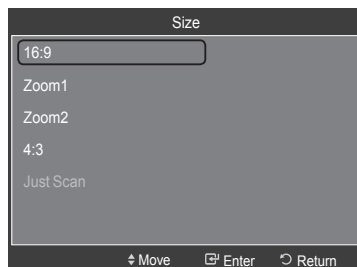
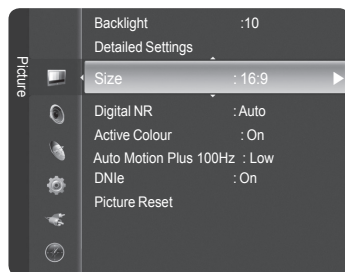
- Only available in "HDMI1.3(Y Pb Pr format)" and "Component" on Movie mode.
- If xvYCC function is active, PIP can not be selected.



Selecting the Picture Size

You can select the picture size which best corresponds to your viewing requirements.

- 1 Press the **MENU** button to display the menu.
- 2 Press the **ENTER/OK** button to select **Picture**.
- 3 Press the **▲** or **▼** button to select **Size**, then press the **ENTER/OK** button.
- 4 Select the required option by pressing the **▲** or **▼** button, then press the **ENTER/OK** button.
Available options: **16:9**, **Zoom1**, **Zoom2**, **4:3**, **Just Scan**
 - ◆ **16:9**: Sets the picture to 16:9 wide mode.
 - ◆ **Zoom1**: Magnifies the size of the picture on the screen.
 - ◆ **Zoom2**: Expands the Zoom1 format picture.
 - ◆ **4:3**: Sets the picture to 4:3 normal mode.
 - ◆ **Just Scan**: Use this function to see the full image without cutting off the picture when HDMI (1080i/1080p/720p) or Component (1080i/1080p/720p) or DTV(1080i/1080p) signals are input.
- 5 Press the **EXIT** button to exit.



- You can change the picture size simply by pressing the **P.SIZE** button on the remote control.



-
- ◆ 16:9 and 4:3 are available in all modes. Zoom1 and Zoom2 are available in ATV, DTV, Component (480i, 480p, 576i, 576p), HDMI (480p, 576p), AV and S-Video modes.
 - ◆ In Zoom1, Zoom2 modes, you can move the picture on the screen by pressing the **▲** or **▼** button.
 - ◆ Each adjusted setting will be stored separately according to its input mode.

Digital NR / Active Colour /Auto Motion Plus 100Hz / DNle

- 1 Press the **MENU** button to display the menu.
- 2 Press the **ENTER/OK** button to select **Picture**.
- 3 Select the required option by pressing the **▲** or **▼** button, then press the **ENTER/OK** button. Available options: **Digital NR**, **Active Colour**, **Auto Motion Plus 100Hz**, **DNle**
- 4 When you are satisfied with your setting, press the **ENTER/OK** button.
- 5 Press the **EXIT** button to exit.

◆ **Digital NR: Off/Low/Medium/High/Auto**

If the signal received by the television is weak, you can activate this feature to reduce any static and ghosting that may appear on the screen.

◆ **Active Colour: Off/On**

If you turn on this option, the colours of the sky and grass will be stronger and clearer for a more vivid on-screen picture.

➤ When you select **Standard** or **Movie** in Picture Mode, the **Active Colour** automatically changes to Off and it is deactivated. When the Picture Mode is set to **Dynamic**, the **Active Colour** is activated regardless of the Picture Mode setting.

◆ **Auto Motion Plus 100Hz: Off / Low / Medium/ High/ Demo**

You can view more natural skin and text even in fast moving scenes. This function is not available in PC mode and Game mode.

➤ If you enable "Auto Motion Plus 100Hz" noise may appear on the screen. If this occurs, please set "Auto Motion Plus 100Hz" to "Off"

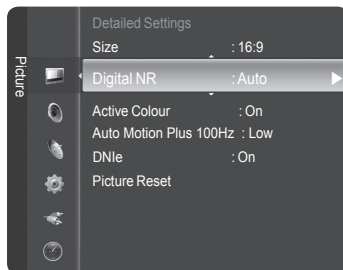
◆ **DNle: Off/On**

This TV includes the DNle function so as to provide a high visual quality. If you set DNle to on, you can view the screen with the DNle feature activated. Using this function, you can view the difference in the visual quality.

➤ **DNle™ (Digital Natural Image engine) [DNle]**

This feature brings you more detailed image with 3D noise reduction, detail enhancement, contrast enhancement and white enhancement. New image compensation Algorithm gives brighter, clearer, more detailed image to you. DNle™ technology will fit every signal into your eyes.

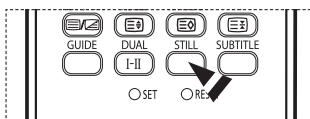
➤ This function is not available in PC mode.



Freezing the Current Picture

You can freeze the picture when watching a television programme simply by pressing the "STILL" button. To return to normal viewing, press it again.

- This function will automatically cancel five minutes later.
- You can use this function on main picture. When viewing Picture in Picture, only main picture will be frozen. □□



Viewing Picture-in-Picture

This product has one built-in tuner, which does not allow PIP to function in the same mode. For example, you cannot watch one TV channel in the main screen, and a different one in the PIP screen. Please see 'PIP Settings' below for details. You can use the PIP feature to simultaneously watch two video sources.

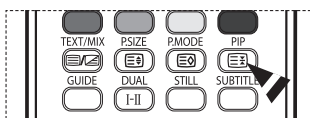
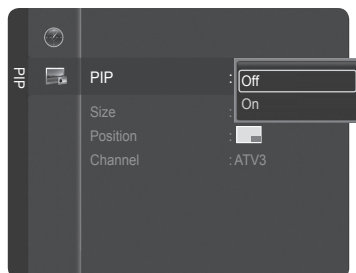
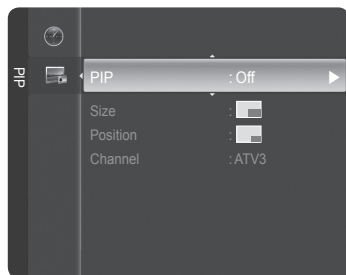
➤ While Parental Lock is in operation, the PIP function cannot be used. (Refer to page 41)

Activating Picture-in-Picture

- 1 Press the **MENU** button to display the menu.
- 2 Press the **▲** or **▼** button to select **PIP**, then press the **ENTER/OK** button.
- 3 Press the **ENTER/OK** button again.
Press the **▲** or **▼** button to select **On**, then press the **ENTER/OK** button.
 - If you turn the TV off while watching in PIP mode and turn it on again, the PIP window will disappear.
 - You can view Analog TV broadcasts on the PIP screen (sub-picture) when the main picture is from an external device connected to HDMI1,2,3 Component1,2 PC, or AV1,2, S-Video.

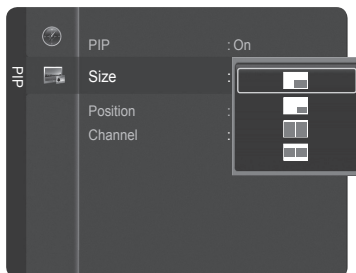
Main picture	Sub picture
Component 1,2 HDMI 1,2,3 PC AV1,2 S-Video	Analog TV broadcasts only

- You can select these options simply by pressing the **PIP** button on the remote control.
- If the main picture is 60Hz except PC, the PIP function cannot be used. When you see DVD, please choose 50HZ signal



Changing the Size of the PIP Window

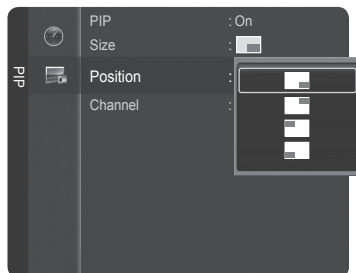
- 4 Press the **▲** or **▼** button to select **Size**, then press the **ENTER/OK** button.
Press the **▲** or **▼** button to select the desired size of the PIP window, then press the **ENTER/OK** button.
 - You may notice that the picture in the PIP window becomes slightly unnatural when you use the main picture to view a game or karaoke.
 - The Double Window and Double Wide cannot be used when the main picture is PC model.



Continued...

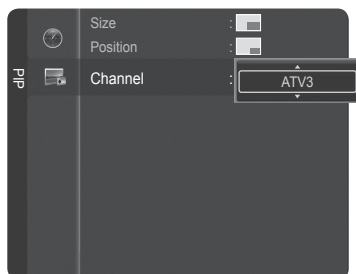
Changing the Position of the PIP Window

- 5 Press the ▲ or ▼ button to select **Position**, then press the **ENTER/OK** button.
Press the ▲ or ▼ button to select the desired PIP window position, then press the **ENTER/OK** button.
- In Double Window (□□) and Double Wide (□□) modes, Position cannot be selected.
 - If the PIP window is set to Double Window (□□) or Double Wide (□□) mode, the screen size or alignment may slightly differ depending on the signal type.



Changing the PIP Channel

- 6 Press the ▲ or ▼ button to select **Channel**, then press the **ENTER/OK** button.
Press the ▲ or ▼ button at the bottom of the remote to select the desired channel in the PIP window, then press the **ENTER/OK** button.
- The channel can be active when the sub picture is set to TV.
- 7 Press the **EXIT** button to exit.



Sound Features

- 1 Press the **MENU** button to display the menu.
- 2 Press the **▲** or **▼** button to select **Sound**, then press the **ENTER/OK** button.
- 3 Select the required option by pressing the **▲** or **▼** button, then press the **ENTER/OK** button.

Available options: **Mode**, **Equalizer**, **SRS TruSurround XT**, **Audio Language**, **Auto Volume**, **Internal Mute**, **Sound Select**, **Digital Format**, **Sound Reset**

- 4 When you are satisfied with your setting, press the **ENTER/OK** button.
- 5 Press the **EXIT** button to exit.

◆ **Mode: Standard/Music/Movie/Speech/Custom**

You can select the type of special sound effect to be used when watching a given broadcast.

◆ **Equalizer: Balance/100Hz/500Hz/1kHz/2kHz/4kHz/8kHz/15kHz/Reset**

◆ **SRS TruSurround XT: Off/On**

TruSurround XT is a patented SRS technology that solves the problem of playing 5.1 multichannel content over two speakers. TruSurround delivers a compelling, virtual surround sound experience through any two-speaker playback system, including internal television speakers. It is fully compatible with all multichannel formats.

➤ TruSurround XT, SRS and  Symbol are trademarks of SRS Labs, Inc. TruSurround XT technology is incorporated under license from SRS Labs, Inc.

◆ **Audio Language**

You can change the default value for audio languages. Displays the language information for the incoming stream.

➤ While viewing a Digital channel, the Audio Language function can be selected.

◆ **Auto Volume: Off/On**

Each broadcasting station has its own signal conditions, and so it is not easy to adjust the volume every time the channel is changed. This feature lets you automatically adjust the volume of the desired channel by lowering the sound output when the modulation signal is high or by raising the sound output when the modulation signal is low.

◆ **Internal Mute: Off/On**

If you want to hear the sound through separate speakers, cancel the internal amplifier.

➤ The **+**, **-** and **MUTE** buttons do not operate when the Internal Mute is set to On.

➤ When **Internal Mute** is set to **On**, the Sound menus except for **Sound Select** and **Sound Reset** (in PIP mode) cannot be adjusted.

◆ **Sound Select: Main/Sub**

When the PIP feature is activated, you can listen to the sound of the sub (PIP) picture.

- **Main**: Used to listen to the sound of the main picture.

- **Sub**: Used to listen to the sound of the sub picture.

◆ **Digital Format**

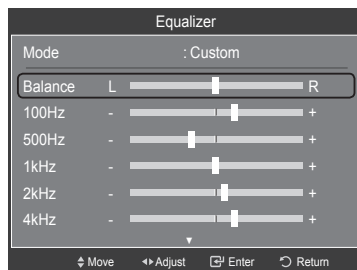
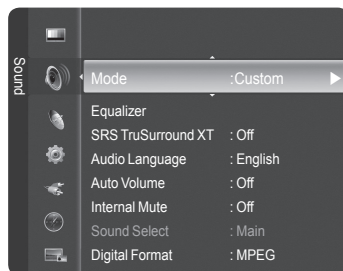
The Digital Format appears according to the broadcasting signal.

➤ While viewing a Digital channel, the Digital Format function can be selected.

◆ **Sound Reset: Reset All/Reset Sound Mode**

Reset All: All the picture values return to default settings.

Reset Sound Mode: Current sound values return to default settings.



TRADEMARK & LABEL LICENSE NOTICE

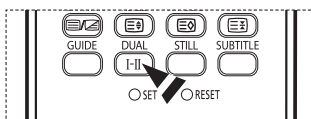


Manufactured under license from Dolby Laboratories.

"Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

Selecting the Sound Mode (depending on the model)

The DUAL I-II button displays/controls the processing and output of the audio signal. When power is switched on, the mode is automatically preset to either “DUAL-I” or “Stereo”, depending on the current transmission.



	Type of broadcast	On-screen indication		
NICAM Stereo	Regular broadcast (Standard audio)	Mono (Normal use)		
	Regular + NICAM Mono	NICAM	↔	Mono (Normal)
	NICAM Stereo	NICAM stereo	↔	Mono (Normal)
	NICAM DUAL-I/II	NICAM dual-1	→ NICAM dual-2	→ Mono (Normal)
A2 Stereo	Regular broadcast (Standard audio)	Mono (Normal use)		
	Bilingual or DUAL-I/II	Dual I	↔	Dual II
	Stereo	Stereo	↔	Mono (Forced mono)

- ◆ If the receiving conditions deteriorate, listening will be easier if the mode is set to **Mono**.
- ◆ If the stereo signal is weak and automatic switching occurs, switch to **Mono**.
- ◆ When receiving a mono sound in the AV mode, connect to the “AUDIO-L” input connector on the panel (front or side). If the mono sound comes out only from the left speaker, press the **DUAL I-II** button.

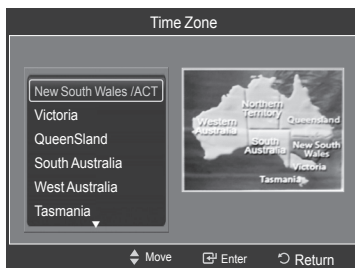
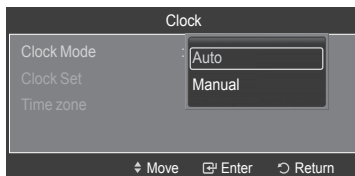
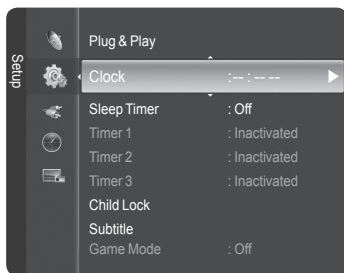
Setting the Time

Setting the clock is necessary in order to use the various timer features of the TV. Also, you can check the time while watching the TV. (Just press the INFO button.)

Option 1: Setting the Clock Automatically

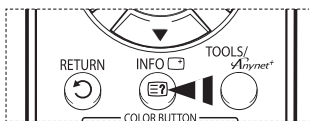
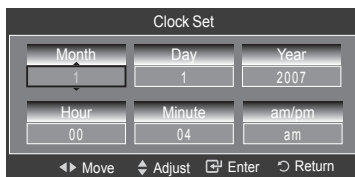
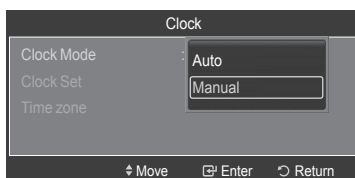
The Clock can be set automatically if you are receiving a digital signal.

- 1 Press the **MENU** button to display the menu.
- 2 Press the **▲** or **▼** button to select **Setup**, then press the **ENTER/OK** button.
- 3 Press the **▲** or **▼** button to select **Clock**, then press the **ENTER/OK** button.
- 4 Press the **ENTER/OK** button to select **Clock Mode**.
- 5 Press the **▲** or **▼** button to select **Auto**, then press the **ENTER/OK** button.
- 6 Press the **▲** or **▼** button to select **Time Zone**, then press the **ENTER/OK** button.
Press the **▲** or **▼** button to highlight the time zone for your local area (and to move the highlight to the appropriate time zone on the map of the United States), then press the **ENTER/OK** button.
- 7 Press the **EXIT** button to exit.



Option 2: Setting the Clock Manually

- 1 Press the **MENU** button to display the menu.
- 2 Press the **▲** or **▼** button to select **Setup**, then press the **ENTER/OK** button.
- 3 Press the **▲** or **▼** button to select **Clock**, then press the **ENTER/OK** button.
- 4 Press the **ENTER/OK** button to select **Clock Mode**.
- 5 Press the **▲** or **▼** button to select **Manual**, then press the **ENTER/OK** button.
- 6 Press the **▲** or **▼** button to select **Clock Set**, then press the **ENTER/OK** button.
- 7 Press the **◀** or **▶** button to move to **Month**, **Day**, **Year**, **Hour**, or **Minute**, **am/pm**.
Set the date and time you want by pressing the **▲** or **▼** button, then press the **ENTER/OK** button.
- 8 Press the **EXIT** button to exit.
 - The current time will appear every time you press the **INFO** button.
 - You can set the **Month**, **Day**, **Year**, **Hour**, and **Minute** directly by pressing the number buttons on the remote control.



Continued...

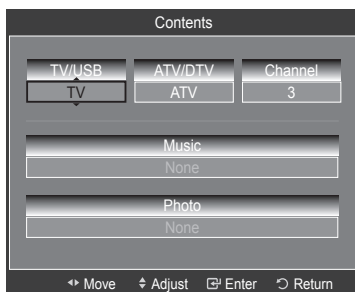
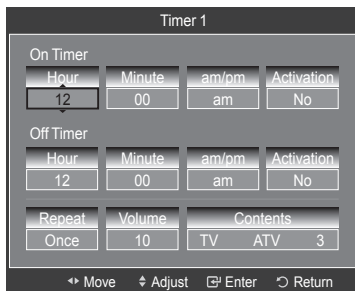
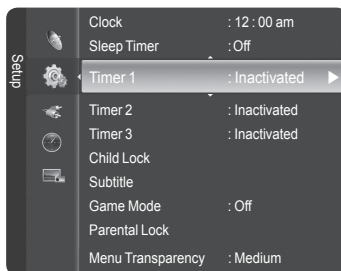
Setting the On/Off Timer

Use this feature to set the TV to turn on or off at a desired time.

- 1 Press the **MENU** button to display the menu.
 - 2 Press the **▲** or **▼** button to select **Setup**, then press the **ENTER/OK** button.
 - 3 Press the **▲** or **▼** button to select **Timer 1**, then press the **ENTER/OK** button.
The **Timer 1** menu is displayed.
 - 4 Press the **◀** or **▶** button to select the required item below.
Press the **▲** or **▼** button to adjust to the setting satisfied.
 - 5 Press the **EXIT** button to exit.
- ◆ **On Timer:** Select **Hour**, **Minute**, **am/pm**, and **No/Yes**.
(To activate timer with the setting satisfied, set to **Yes**.)
 - ◆ **Off Timer:** Select **Hour**, **Minute**, **am/pm**, and **No/Yes**.
(To activate timer with the setting satisfied, set to **Yes**.)
 - ◆ **Repeat:** Select **Once**, **Everyday**, **Mon~Fri**, **Mon~Sat**, or **Sat~Sun**.
 - ◆ **Volume:** Select the required volume level.
 - ◆ **Contents:** When the On Time is active, you can turn on a specific channel or play back contents such as photo or audio files. (Make sure that a USB device is connected to your TV.)

➤ Auto Power Off

When you set the timer On, the TV will eventually turn off if no controls are operated for 3 hours after the TV was turned on by timer. This function is only available in timer On mode and prevents overheating, which may occur if a TV is on for too long time.



Setting the Sleep Timer

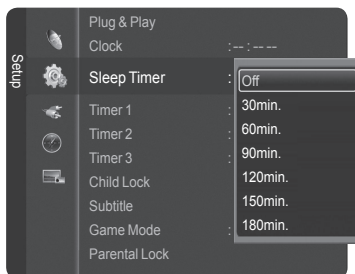
The sleep timer automatically shuts off the TV after a preset time (30, 60, 90, 120, 150 and 180 minutes).

- 1 Press the **MENU** button to display the menu.
- 2 Press the **▲** or **▼** button to select **Setup**, then press the **ENTER/OK** button.
- 3 Press the **▲** or **▼** button to select **Sleep Timer**, then press the **ENTER/OK** button.
- 4 Press the **▲** or **▼** button to select the minute, then press the **ENTER/OK** button.

To cancel the set sleep timer:

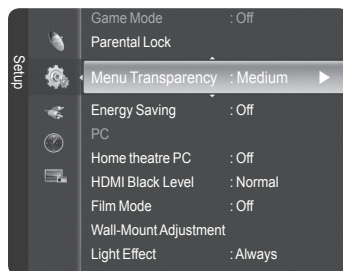
Press the **▲** or **▼** button to select **Off**, then press the **ENTER/OK** button.

- 5 Press the **EXIT** button to exit.



Menu Transparency / Energy Saving / HDMI Black Level / Film Mode / Light Effect / Blue Screen / Melody / Function Help

- 1 Press the **MENU** button to display the menu.
- 2 Press the **▲** or **▼** button to select **Setup**, then press the **ENTER/OK** button.
- 3 Select the required option by pressing the **▲** or **▼** button, then press the **ENTER/OK** button.
Available options: **Menu Transparency**, **Energy Saving**, **HDMI Black Level**, **Film Mode**, **Light Effect**, **Blue Screen**, **Melody**, **Function Help**
- 4 When you are satisfied with your setting, press the **ENTER/OK** button.



- 5 Press the **EXIT** button to exit.

◆ **Menu Transparency: High/Medium/Low**

Adjusts the transparency of the menu screen.

◆ **Energy Saving: Off/Low/Medium/High**

This feature adjusts the screen brightness depending on the surrounding lighting conditions.

- **Off:** Switches off the Energy Saving mode.
- **Low:** Operates in standard mode regardless of the surrounding illumination.
- **Medium:** Enters Medium power saving mode regardless of the surrounding illumination.
- **High:** Enters maximum power saving mode regardless of the surrounding illumination.

◆ **HDMI Black Level: Normal/Low**

Use this function to adjust the Black Level of the picture while in HDMI mode.

- **Normal:** The screen gets brighter.
- **Low:** The screen gets darker.

➤ This function is active only when the external input connects to HDMI(RGB signals).

◆ **Film Mode: On/Off**

You can automatically sense and process film signals and adjust the picture for optimum quality.

➤ Film Mode is only available in the TV mode and the External Input modes (AV, S-Video, Composite and Component) which support SD level signals (480i, 576i).

◆ **Light Effect : Off/In Standby/In Watching TV/Always**

You can turn on/off the blue LED on the front of TV according to the situation. Use it for saving power or when the LED dazzles your eyes.

- **Off:** The blue LED is always off.
- **In Standby:** The blue LED lights while in Standby mode and it turns off when your TV is turned on.
- **In Watching TV:** The blue LED lights when watching TV and it turns off when your TV is turned off.
- **Always:** The blue LED always lights.

➤ Set the Light Effect to Off to reduce the power consumption.

◆ **Blue Screen: On/Off**

If no signal is being received or the signal is very weak, a blue screen automatically replaces the noisy picture background. If you wish to continue viewing the poor picture, you must set the Blue Screen to Off.

◆ **Melody: Off/Low/Medium/High**

The TV power on/off melody sound can be adjusted.

◆ **Function Help: On/Off**

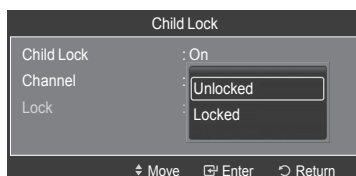
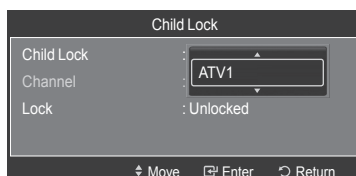
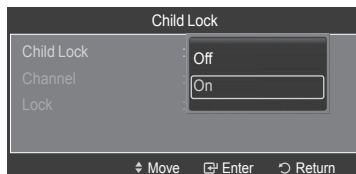
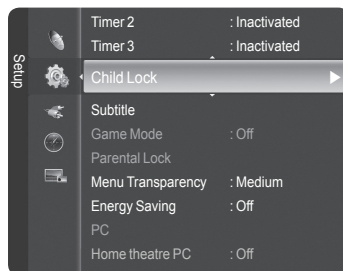
Displays help on the menu functions.

➤ The **Function Help** default setting is On.

Activating the Child Lock

This feature allows you to prevent unauthorized users, such as children, from watching unsuitable programmes by muting out video and audio. Child Lock cannot be released using the buttons on the side. Only the remote control can release the Child Lock setting, so keep the remote control away from children.

- 1 Press the **MENU** button to display the menu.
- 2 Press the **▲** or **▼** button to select **Setup**, then press the **ENTER/OK** button.
- 3 Press the **▲** or **▼** button to select **Child Lock**.
- 4 Press the **ENTER/OK** button to select **On** or **Off**. Press the **ENTER/OK** button.
- 5 Press the **▲** or **▼** button to select **Channel**, then press the **ENTER/OK** button and select the channels you want to lock, then press the **ENTER/OK** button.
- 6 Press the **▲** or **▼** button to select **Lock**, then press the **ENTER/OK** button to select Unlocked or Locked.
- 7 Repeat steps for each channel to be locked or unlocked.
- 8 Press the **EXIT** button to exit.
 - While viewing a Analog channel , the **Child Lock** function can be selected.

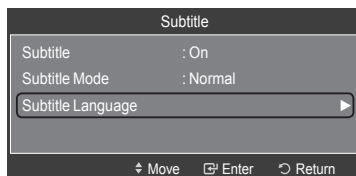
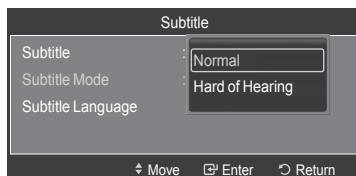
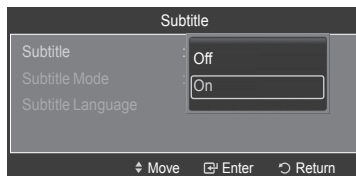
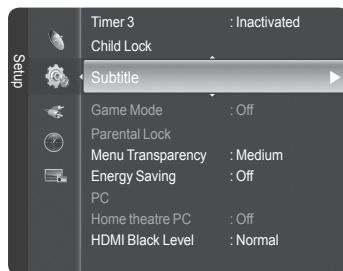


Setting the Subtitle

- 1 Press the **MENU** button to display the menu.
- 2 Press the **▲** or **▼** button to select **Setup**, then press the **ENTER/OK** button.
- 3 Press the **▲** or **▼** button to select **Subtitle**, then press the **ENTER/OK** button.
- 4 Select **On** by pressing the **ENTER/OK** button.
- 5 Press the **▲** or **▼** button to select required menu (**Subtitle**, **Subtitle Mode**, **Subtitle Language**) then press the **ENTER/OK** button. The options of the selected menu are displayed.

- 6 Press the **EXIT** button to exit.

➤ The Subtitle Language availability depends on your country, if the signal does not include subtitle language, the function is not active.



Using the Game Mode

When connecting to a game console such as PlayStation™ or Xbox™, you can enjoy a more realistic gaming experience by selecting game menu.

- 1 Press the **MENU** button to display the menu.
- 2 Press the **▲** or **▼** button to select **Setup**, then press the **ENTER/OK** button.
- 3 Press the **▲** or **▼** button to select **Game Mode**, then press the **ENTER/OK** button.
- 4 Select **On** by pressing the **▲** or **▼** button, then press the **ENTER/OK** button.
- 5 Press the **EXIT** button to exit.

➤ Restrictions on Game Mode (Caution)

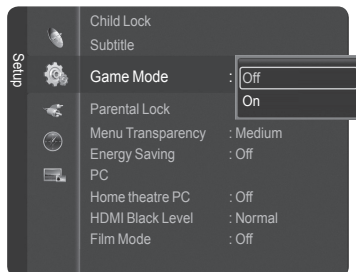
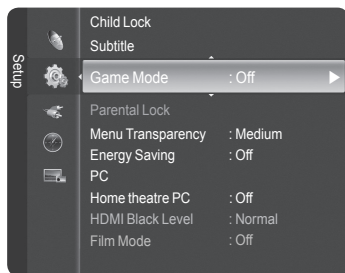
- ◆ To disconnect the game console and connect another external device, set Game Mode to Off in the Setup menu.
- ◆ If you display the TV menu in Game Mode, the screen shakes slightly.
- ◆ The mark () appears on the screen which means that Game Mode is On with the selected source.

➤ If Game Mode is On

- ◆ Picture Mode is automatically changed to Standard and users cannot change the mode.
- ◆ Sound Mode is automatically changed to Custom and user can not change the mode. Adjust the sound using the equalizer.
- ◆ The Reset in the Sound menu is activated. Reset function initializes the Equalizer settings to the factory default setting.
- ◆ The Channel menu is deactivated.

➤ Game Mode is not available in TV mode.

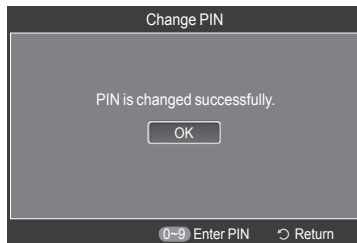
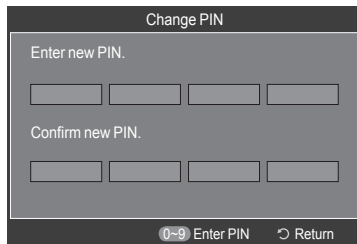
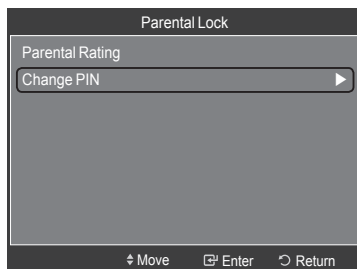
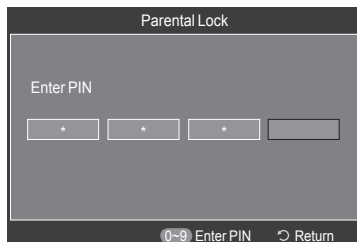
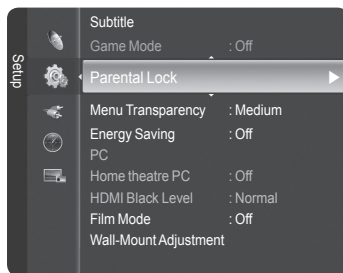
- If the picture is poor when external device is connected to TV, check if Game Mode is On. Set Game Mode to Off and connect external devices.



Setting up the Parental Lock

This feature allows you to prevent unauthorized users, such as children, from watching unsuitable programmes by a 4-digit PIN (Personal Identification Number) code that is defined by the user. The on-screen menu will instruct you to assign a PIN code (you can change it later, if necessary).

- 1 Press the **MENU** button to display the menu.
- 2 Press the **▲** or **▼** button to select **Setup**, then press the **ENTER/OK** button.
- 3 Press the **▲** or **▼** button to select **Parental Lock**, then press the **ENTER/OK** button.
- 4 Press the number buttons to enter your current 4-digit PIN.
 - The default PIN for a new TV set is "0-0-0-0".
- 5 The **Parental Lock** screen will appear. Press the **▲** or **▼** button to select **Change PIN**, then press the **ENTER/OK** button.
- 6 The **Change PIN** screen will appear. Press the number buttons to enter your new 4-digit PIN. Re-enter the same 4 digits. The message **PIN is changed successfully.** is displayed, then your PIN has been memorized.
- 7 Press the **EXIT** button to exit.
 - If you forget the PIN, press the remote-control buttons in the following sequence, which resets the pin to 0-0-0-0 : Power Off. → Mute → 8 → 2 → 4 → Power On.

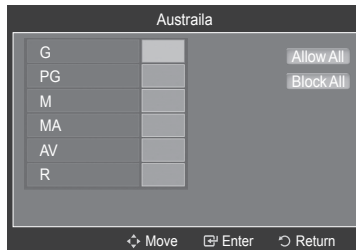
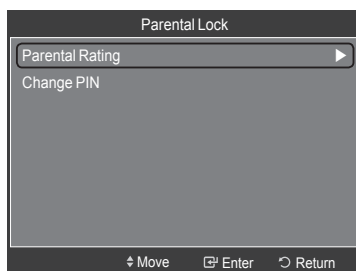
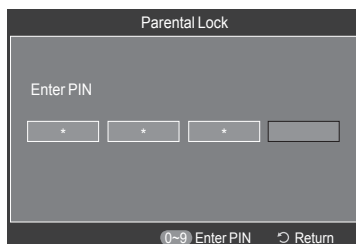
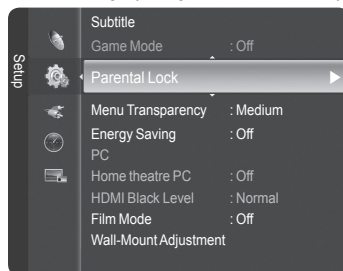


Continued...

How to Set up Restrictions Using “Parental Rating”

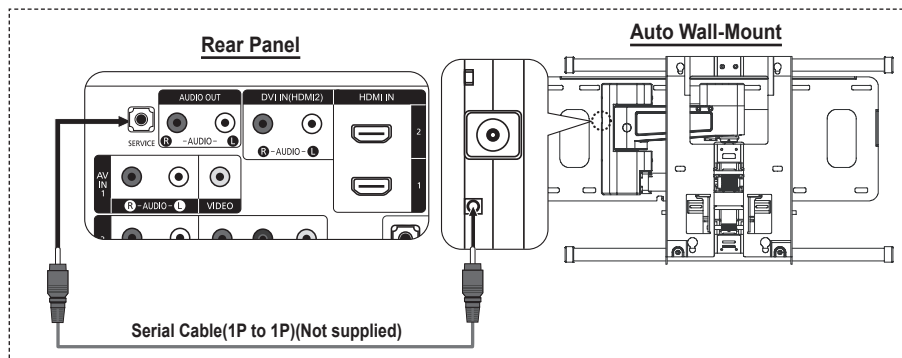
First, set up a personal identification number (PIN), and enable the V-Chip. (See previous section.)

- 1 Press the **MENU** button to display the menu.
 - 2 Press the **▲** or **▼** button to select **Setup**, then press the **ENTER/OK** button.
 - 3 Press the **▲** or **▼** button to select **Parental Lock**, then press the **ENTER/OK** button.
 - 4 Press the number buttons to enter your current 4-digit PIN.
➤ The default PIN for a new TV set is “0-0-0-0”.
 - 5 The **Parental Lock** screen will appear.
Press the **ENTER/OK** button to select **Parental Rating**.
The **Austraila** screen for age rating (**G/PG/M/MA/AV/R**) will appear.
 - 6 Press the **▲** or **▼** button to select an appropriate restriction.
 - 7 Press the **ENTER/OK** button to activate the restriction selected. The “**🔒**” symbol is indicated.
➤ **Allow All**: Press to unlock all TV ratings.
 Block All: Press to lock all TV ratings.
 - 8 Press the **EXIT** button to exit.
- While viewing a DTV channel, the Parental Lock function can be selected.



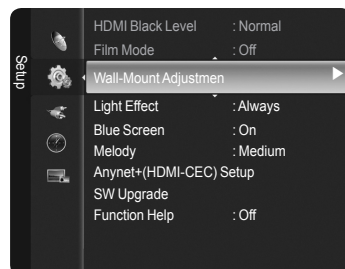
Wall- mount adjustment (Sold separately)

Once the wall mount is installed, the position of your TV can be easily adjustable.



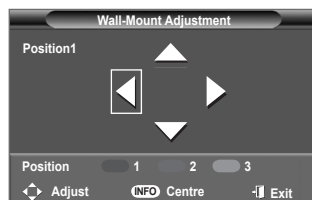
Entering the menu

- 1 Press the **MENU** button to display the menu.
Press the **▲** or **▼** button to select **Setup**, then press the **ENTER/OK** button.
 - 2 Press the **▲** or **▼** button to select **Wall-Mount Adjustment**, then press the **ENTER/OK** button.
 - 3 Adjust to the desired position using the **▲/▼/◀/▶** buttons.
Press the **EXIT** button to exit.
- If you press an arrow button when no OSD is displayed on the TV screen, the Adjustment screen appears.
 - When you turn the power off, your TV moves to the initial installation position. When you turn the power on, your TV moves to the last remembered position you adjusted.



Using the remote Control Buttons

Button	Operations	
	Wall-mount angle adjustment	Tilt Up, Tilt Down, Move right, Move left
	Reset	Moves to the initial installation position
	Remembering the position and moving to the remembered position	Remembers 3 positions with the Red, Green and Yellow buttons. Moves to the remembered position using these 3 colour buttons.

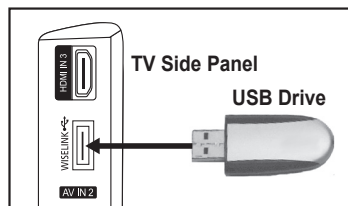


- For installation, refer to the Installation Manual provided.
- For product installation and the installation and moving of the wall mount, make sure to consult a specialized installation company.
- This installation manual is to be used when attaching the wall mount to a wall. When attaching to other building materials, please contact your nearest dealer.

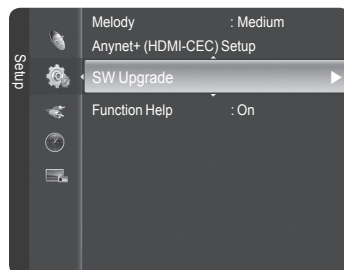
Upgrading the Software

Samsung may offer upgrades for your TV's firmware in the future. There are two methods to upgrade the software. Please contact the Samsung call center at 1-800-SAMSUNG to receive information about downloading upgrades and using the USB device and Over the Air Download. Upgrades will be possible by connecting a USB drive to the USB port located on the back of your TV and using Over the Air Download.

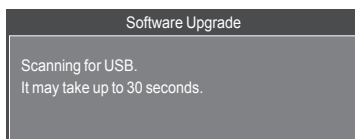
Using a USB



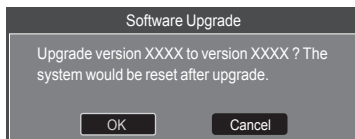
- 1 Insert a USB drive containing the firmware upgrade into the USB Upgrade Port on the side of the TV.



- 2 Press the **MENU** button to display the menu.
- 3 Press the **▲** or **▼** button to select **Setup**, then press the **ENTER/OK** button.
- 4 Press the **▲** or **▼** button to select **SW Upgrade**, then press the **ENTER/OK** button and select USB Download. The message **Scanning for USB. It may take up to 30 seconds.** is displayed.



- 5 If the firmware on the USB is properly recognized, the message **Upgrade version xxxx to version xxxx? The system would be reset after upgrade.** is displayed. Press the **◀** or **▶** button to select **OK**, then press the **ENTER/OK** button. The upgrade starts.



Please be careful not to disconnect the power or remove the USB drive while upgrades are being applied.

The TV will shut off and turn on automatically after completing the firmware upgrade.

Please check the firmware version after the upgrades are complete.

- When software is upgraded, video and audio settings you have made will return to their default (factory) settings. We recommend you write down your settings so that you can easily reset them after the upgrade.

Over the Air Download

- 1 Press the **MENU** button to display the menu.
- 2 Press the **▲** or **▼** button to select **Setup**, then press the **ENTER/OK** button.
- 3 Press the **▲** or **▼** button to select **SW Upgrade**, then press the **ENTER/OK** button.
- 4 Press the **ENTER/OK** button to select the **Over the Air Download**.
- 5 Press the **▲** or **▼** button to select **Software Information**, **Manual Upgrade** or **Standby Mode Upgrade**. Press the **ENTER/OK** button.

➤ Software Information

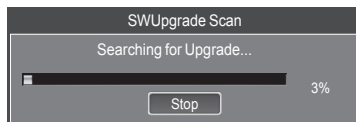
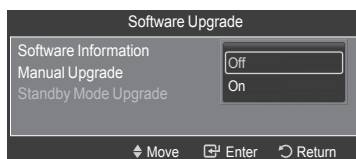
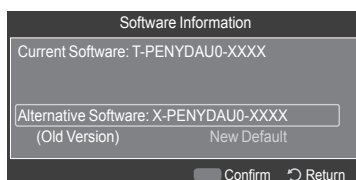
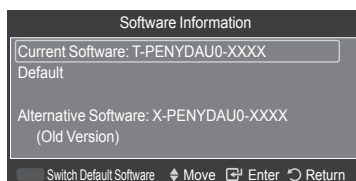
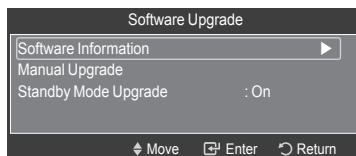
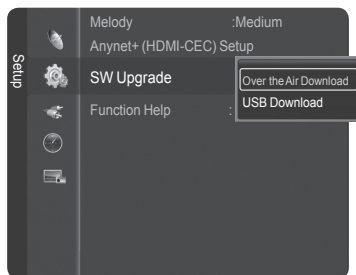
Press the **ENTER/OK** button, then the current software version appears. Then you can upgrade the software as the pictures.

➤ Manual Upgrade

Press the **ENTER/OK** button to search for new software from the currently broadcasting channels. The operations are same as you enter the software information.

➤ Standby Mode Upgrade : On / Off

When you turn off your TV, software upgrade will be conducted automatically, after 45 minutes. During this upgrade, the screen can be illuminated slightly, in case of plasma. This phenomenon may continue for 3~5 minutes if there is no upgrade signal. But this phenomenon may continue for more than 1 hour if there is new software version. After upgrade is completed, your TV will be turned off automatically. If you don't want this process, select Off by pressing the **▲** or **▼** button. Press the **ENTER/OK** button.



Setting up Your PC Software (Based on Windows XP)

The Windows display-settings for a typical computer are shown below. The actual screens on your PC may be different depending upon your particular version of Windows and your particular video card. Even if your actual screens look different, the same, basic set-up information will apply in almost all cases. (If not, contact your computer manufacturer or Samsung Dealer.)

1. First, click on "Control Panel" on the Windows start menu.
2. When the control panel window appears, click on "Appearance and Themes" and a display dialog-box will appear.
3. When the control panel window appears, click on "Display" and a display dialog-box will appear.
4. Navigate to the "Settings" tab on the display dialog-box.
The correct size setting (resolution): Optimum- 1920 X 1080
If a vertical-frequency option exists on your display settings dialog box, the correct value is "60" or "60 Hz". Otherwise, just click "OK" and exit the dialog box.



Display Modes

Both screen position and size will vary depending on the type of PC monitor and its resolution. The resolutions in the table are recommended. (All resolutions between the supported limits are supported)

D-Sub Input

Mode	Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H/V)
IBM	640 x 350	31.469	70.086	25.175	+ / -
	640 x 480	31.469	59.940	25.175	- / -
	720 x 400	31.469	70.087	28.322	- / +
VESA	640 x 480	35.000	70.000	28.560	- / +
	640 x 480	37.861	72.809	31.500	- / -
	640 x 480	37.500	75.000	31.500	- / -
	800 x 600	43.750	70.000	45.500	- / +
	800 x 600	37.879	60.317	40.000	+ / +
	800 x 600	48.077	72.188	50.000	+ / +
	800 x 600	46.875	75.000	49.500	+ / +
	1024 x 768	57.672	72.000	78.434	- / -
	1024 x 768	48.364	60.000	65.000	- / -
	1024 x 768	56.476	70.069	75.000	- / -
	1024 x 768	60.023	75.029	78.750	+ / +
	1152 x 864	67.500	75.000	108.000	+ / +
	1280 x 960	60.000	60.000	108.000	+ / +
	1280 x 1024	63.981	60.020	108.000	+ / +
	1280 x 1024	74.620	70.000	128.943	- / -
	1280 x 1024	79.976	75.025	135.000	+ / +
	1600 x 1200	75.000	60.000	162.000	+ / +
	1920 x 1080	66.587	59.934	138.500	+ / -

HDMI/DVI Input

Mode	Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H/V)
IBM	640 x 350	31.469	70.086	25.175	+ / -
	640 x 480	31.469	59.940	25.175	- / -
	720 x 400	31.469	70.087	28.322	- / +
VESA	800 x 600	37.879	60.317	40.000	+ / +
	1024 x 768	48.364	60.000	65.000	- / -
	1280 x 1024	63.981	60.020	108.000	+ / +
	1920 x 1080	66.587	59.934	138.500	+ / -

- ◆ The interlace mode is not supported.
- ◆ The set might operate abnormally if a non-standard video format is selected.
- ◆ Separate and Composite modes are supported. SOG is not supported.

Setting the PC

➤ Preset to the **PC** mode by pressing the **SOURCE** button.

- 1 Press the **MENU** button to display the menu.
- 2 Press the **▲** or **▼** button to select **Setup**, then press the **ENTER/OK** button.
- 3 Press the **▲** or **▼** button to select **PC**, then press the **ENTER/OK** button.
- 4 Select the required option by pressing the **▲** or **▼** button, then press the **ENTER/OK** button.

Available options: **Image Lock**, **Position**, **Auto Adjustment**, **Image Reset**

- 5 When you are satisfied with your setting, press the **ENTER/OK** button.

- 6 Press the **EXIT** button to exit.

◆ **Image Lock: Coarse/Fine**

The purpose of picture quality adjustment is to remove or reduce picture noise.

If the noise is not removed by Fine-tuning alone, then adjust the frequency as best as possible (coarse) and Fine-tune again.

After the noise has been reduced, readjust the picture so that it is aligned on the centre of screen.

- 1 Press the **▲** or **▼** button to select **Coarse** or **Fine**, then press the **ENTER/OK** button.
- 2 Press the **◀** or **▶** button to adjust the screen quality, vertical stripes may appear or the picture may be blurry. Press the **ENTER/OK** button.

◆ **Position**

Adjust the PC's screen positioning if it does not fit the TV screen.

- 1 Adjust the position by pressing the **▲/▼/◀/▶** button.
- 2 Press the **ENTER/OK** button.

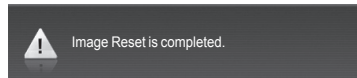
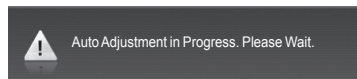
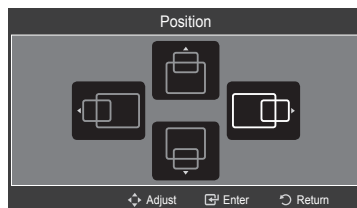
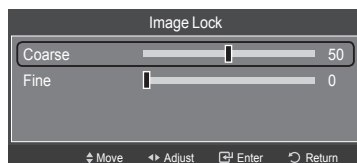
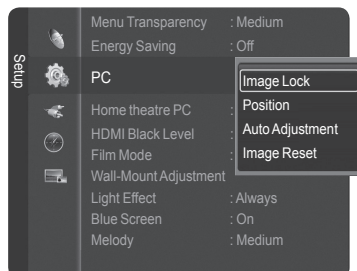
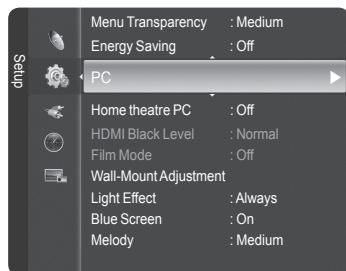
◆ **Auto Adjustment**

Auto adjustment allows the PC screen of set to self-adjust to the incoming PC video signal.

The values of fine, coarse and position are adjusted automatically.

◆ **Image Reset**

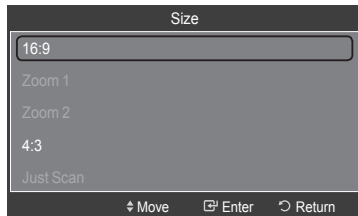
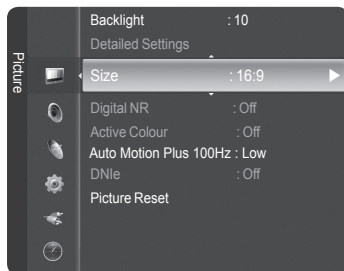
You can replace all image settings with the factory default values.



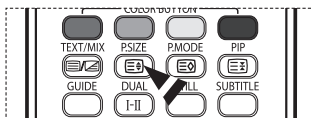
Changing the Picture Size (PC Mode)

You can select the picture size which best corresponds to your viewing requirements.

- 1 Press the **MENU** button to display the menu.
- 2 Press the **ENTER/OK** button to select **Picture**.
- 3 Press the **▲** or **▼** button to select **Size**, then press the **ENTER/OK** button.
- 4 Press the **▲** or **▼** button to select the screen format you want, then press the **ENTER/OK** button.
- 5 Press the **EXIT** button to exit.
 - ◆ **16:9**: Sets the picture to 16:9 wide mode.
 - ◆ **4:3**: Set the picture in 4:3 format.



- You can change the picture size simply by pressing the **P.SIZE** button on the remote control.

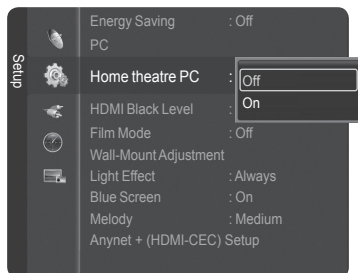
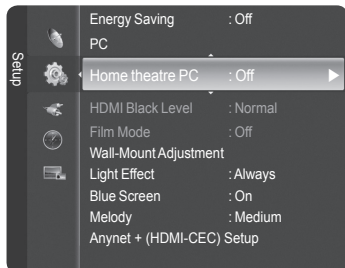


Setting the Home theatre PC

You can view higher quality pictures by configuring the screen settings in PC Mode.

If you set the Home Theatre PC function to On, you can configure the Detailed Settings (when Picture Mode is set to Standard or Movie) as in PC Mode.

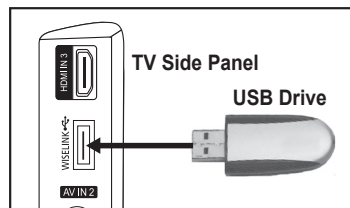
- 1 Press the **MENU** button to display the menu.
 - 2 Press the **▲** or **▼** button to select **Setup**, then press the **ENTER/OK** button.
 - 3 Press the **▲** or **▼** button to select **Home theatre PC**, then press the **ENTER/OK** button.
 - 4 Select **Off** or **On** by pressing the **▲** or **▼** button, then press the **ENTER/OK** button.
 - 5 Press the **EXIT** button to exit.
- This function is available only in PC mode.



Using the WISELINK Function

This function enables you to view and listen to photo (JPEG) and audio files (MP3) saved on a **USB Mass Storage Class (MSC)** device.

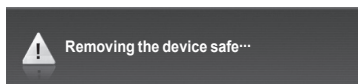
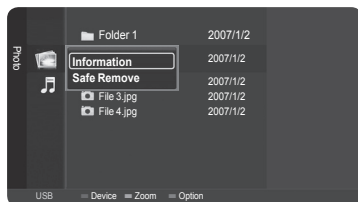
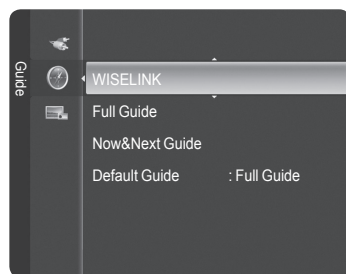
- 1 Press the **POWER** button on the remote control or front panel.
- 2 Connect a USB device containing JPEG and/or MP3 files to the WISELINK jack (USB jack) on the side of the TV.



Removing a USB Device

- 1 Press the **MENU** button to display the menu.
- 2 Press the **▲** or **▼** button to select **Guide**, then press the **ENTER/OK** button.
- 3 Press the **ENTER/OK** button to select **WISELINK**. The photo or music files saved on the memory device are listed.
- 4 Press the blue button and press the **▲** or **▼** button to select **Safe Remove** and press the **ENTER/OK** button. The **Removing the device safe...** message appears and then the **USB could be removed safe** message appears.
- 5 Remove the USB device from the TV.

- ◆ If you enter the WISELINK mode with no USB device connected. "No external storage device found. Check the connection status." message will appear. In this case, insert the USB device, exit the screen by pressing the **WISELINK** button on the remote control and enter the WISELINK screen again.
- ◆ Photo and audio files must be named in English. If not, the files can not be played. Change the file names to English, French, or Spanish if necessary.
- ◆ Folder or file names can not exceed 128 characters. If exceeded, they won't function. When the files stored in the USB is over 440MB, if you select **Delete All**, the TV will be abnormal. You can delete it in the computer.



- ◆ The file system only supports the FAT16/32.
- ◆ **Certain types of USB Digital camera and audio devices may not be compatible with this TV.**
- ◆ WISELINK supports USB Mass Storage Class (MSC) devices only.
- ◆ MSC is the device for mass storage class bulk-only transport. (e.g. thumb device, flash card reader)
- ◆ WISELINK only supports the USB Mass Storage Class device (MSC). MSC is a Mass Storage Class Bulk-Only Transport device. Examples of MSC are Thumb drives and Flash Card Readers.
- ◆ Before connecting your device to the TV, please back up your files to prevent them from damage or loss of data. SAMSUNG is not responsible for any data file damage or data loss.
- ◆ The USB hub is not supported and you cannot use a digital camera (PTP: Picture Transfer Protocol) and USB storage device at the same time.
- ◆ To remove a USB storage device from the TV or to turn it off (if available), exit WISELINK first for a proper system operation.

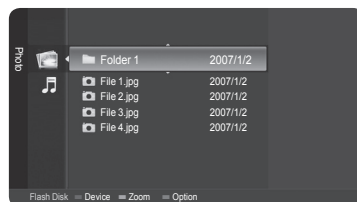
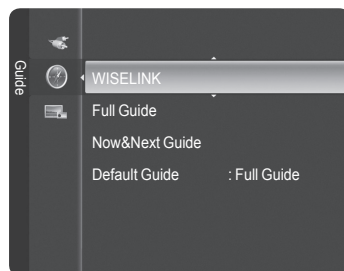
Continued...

Using the Remote Control Button in WISELINK Menu

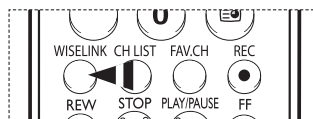
Button	Operations
	Move the cursor and select an item.
	Select the currently selected item.
	Play or pause the Slide Show or MP3 file.
	Return to the previous menu.
	Run various functions from the Photo and Music menus.
	Stop the current slide show or MP3 file.
	Page Up or Down (file list item).

Using the WISELINK Mode

- 1 Press the **MENU** button to display the menu.
- 2 Press the **▲** or **▼** button to select **Guide**, then press the **ENTER/OK** button.
- 3 Press the **ENTER/OK** button to select **WISELINK**.
- 4 Press the **▲** or **▼** button to select **Photo** or **Music**, then press the **ENTER/OK** button.
The photo or music files saved on the storage device are listed.
- 5 To exit WISELINK mode, press the **EXIT** button on the remote control.



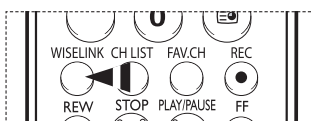
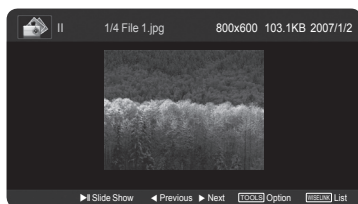
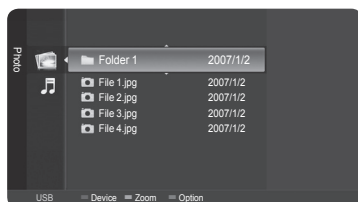
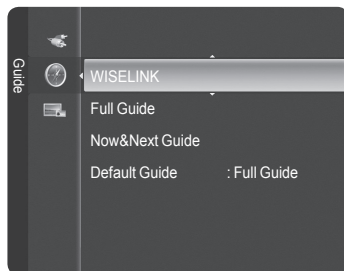
- Press the **WISELINK** button on the remote control to turn on the WISELINK mode.



Using the Photo (JPEG) List

You can play back the JPEG files saved on a memory device in various ways.

- 1 After switching the mode to WISELINK, select a memory device that you have installed. (Refer to page 50~51)
- 2 Press the **ENTER/OK** button to select **Photo**. JPEG files and existing folders are displayed.
- 3 Press the **▲** or **▼** button to select a photo, then press the **ENTER/OK** button.
 - Pressing the button over a photo icon shows the currently selected photo in full screen.
 - Pressing the button over a folder icon shows the JPEG files included in the folder.
 - While a full screen is displayed, **◀** or **▶** button will let you see another photo image in the same folder.
 - Press the **PLAY/PAUSE** button when a photo icon is selected to start a Slide Show.
- 4 To exit WISELINK mode, press the **EXIT** button on the remote control.
 - Moving to a photo may take a few seconds because the file needs to be loaded. At this point, the icon will appear.
 - This menu shows only the files whose extension is jpeg (or jpg). Files with other formats such as gif or tif will not be displayed.
 - Folders are displayed first and they are followed by all JPEG files in the current folder. The folders and JPEG files are sorted in alphabetical order.
 - If the photo is displayed in full screen, you can zoom in and out or rotate the photo on the screen. (Refer to pages 55~57)
 - If the size of a photo file is too big, the playing of the background music may be interrupted intermittently. (When Background Music is On) See page 58.
 - Press the **WISELINK** button on the remote control to turn on the WISELINK mode.



Using the Options Menu

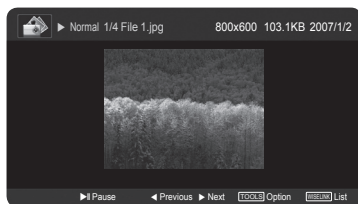
Start Slide Show (or Stop Slide Show):

You can start or stop a Slide Show.

(Refer to "Viewing a Slide Show" on pages 54~55)

Slide Show Speed::

when you choose **Start Slide Show**, you can select Slide Show Speed (Refer to **Slide Show Speed** on page 55)



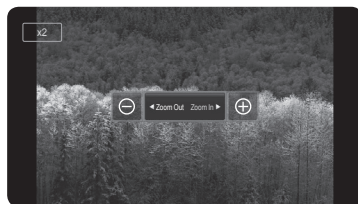
Continued...

Zoom:

You can zoom into images in full screen mode.

Images are zoomed in, in the order of x1 (original size), x2 and x4.

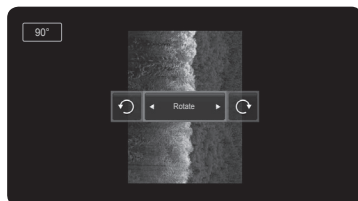
(Refer to "Zooming-In" on page 55)

**Rotate:**

You can rotate images in full screen mode.

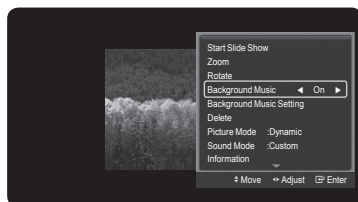
Images are rotated in the order of 0° (original state), 180°, 270° and 90°.

(Refer to "Rotating" on page 57)

**Background Music:**

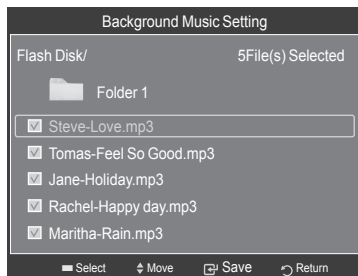
You can determine whether to play the configured background music.

(Refer to "Background Music On/Off" on page 58)

**Background Music Setting:**

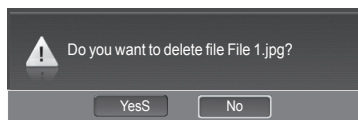
You can set the background music.

(Refer to "Background Music Setting" on page 58)

**Delete:**

You can delete a photo (JPEG) file.

(Refer to "Deleting the Photo files" on page 59)



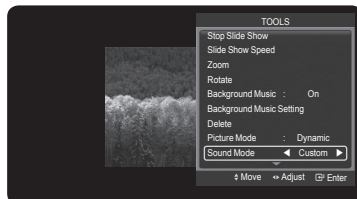
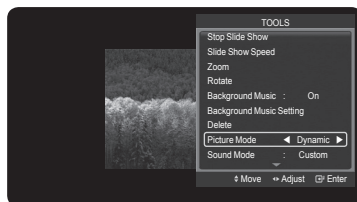
Continued...

Picture Setting:

You can set the Picture mode.
(Refer to on page 27)

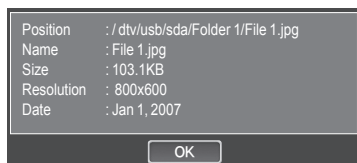
Sound Setting:

You can set the Sound mode.
(Refer to on page 33)



Information:

The photo file information including the order of the file in the current directory, the name, the size, the resolution, and the date modified is displayed.



Screen Saver:

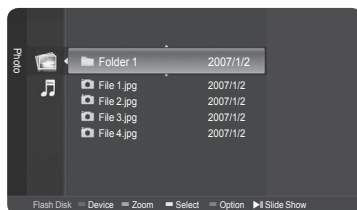
Select to set the waiting time before the screen saver is run when no button is pressed.

You can select from **1min**, **5min** or **10min**.

- To prevent a residual image on the screen, the time to run the Screen Saver is set to 5min by default. Users can change the setting to Off, 5min or 10min according to user requirements.

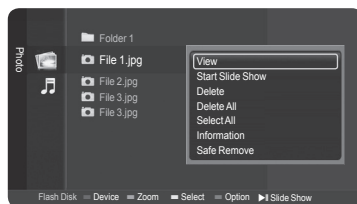
Safe Remove:

You can remove from the WISELINK.



Viewing a Slide Show

- 1 After switching the mode to WISELINK, select a memory device that you have installed. (Refer to page 50~51)
- 2 Press the **ENTER/OK** button to select **Photo**. JPEG files and existing folders are displayed.
- 3 Press the **▲** or **▼** button to select a photo, then press the blue button to display the option (**View**, **Start Slide Show**, **Delete**, **Delete All**, **Select All**, **Information**, **Safe Remove**).
 - Press the **▲** or **▼** button to select **Start Slide Show**, then press the **ENTER/OK** button.
 - Slide show displays all JPEG files in the selected folder at a pre-set speed.
 - During the slide show, files are displayed in order from the currently shown file.
 - MP3 files can be automatically played during the slide show if the Background Music is set to On. To enable this function, MP3 files and other photo files must be located in the same folder on the memory device.
 - Press the **PLAY/PAUSE** button when a photo icon is selected to start a Slide Show.



Continued...

- 4 Press the **TOOLS** button during slide show to set the option.
- 5 To exit WISELINK mode, press the **EXIT** button on the remote control.

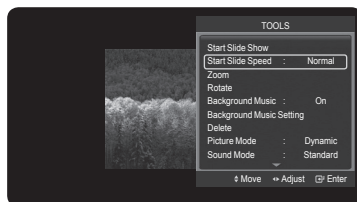
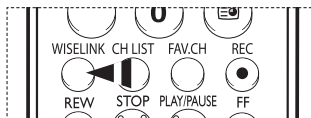
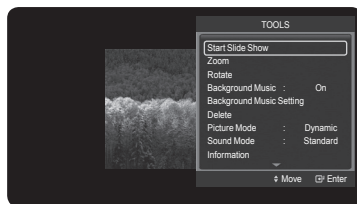
- Press the **WISELINK** button on the remote control to turn on the WISELINK mode.

Slide Show Speed:

Select to control the slide show speed.

Each time the ◀ or ▶ button is pressed, the speed changes repeatedly.

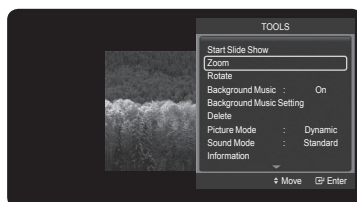
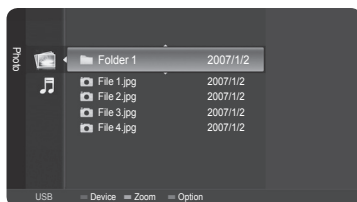
(Fast → Slow → Normal)



Zooming-In

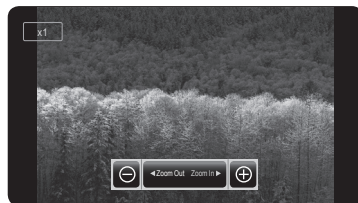
- 1 After switching the mode to **WISELINK**, select a memory device that you have installed. (Refer to page 50~51)
- 2 Press the **ENTER/OK** button to select **Photo**. JPEG files and existing folders are displayed.
- 3 Press the ▲ or ▼ button to select a photo, then press the **ENTER/OK** button.

➤ Pressing the button over a photo icon shows the currently selected photo in full screen.
- 4 Press the **TOOLS** button. Press the ▲ or ▼ button to select **Zoom**, then press the **ENTER/OK** button. Each time the ◀ or ▶ button is pressed, the photo size decreases or increases. (x1 → x2 → x4)
 - ◆ x1: Restore the photo to its original size.
 - ◆ x2: Zoom-in to the photo x2.
 - ◆ x4: Zoom-in to the photo x4.

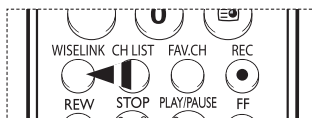


Continued...

- 5 To move the enlarged photo image up/down/left/right, press the **ENTER/OK** button, then press the **▲/▼/◀/▶** buttons.
 - Note that when the enlarged picture is smaller than the original screen size, the location change function doesn't work.
- 6 To exit WISELINK mode, press the **EXIT** button on the remote control.
 - The enlarged file is not saved.



- Press the **WISELINK** button on the remote control to turn on the WISELINK mode.



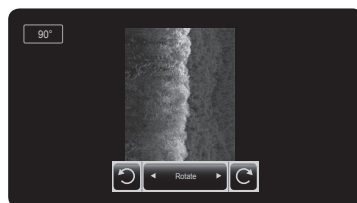
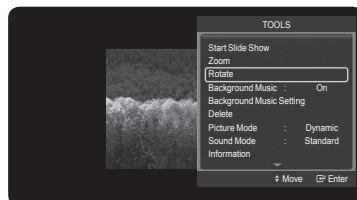
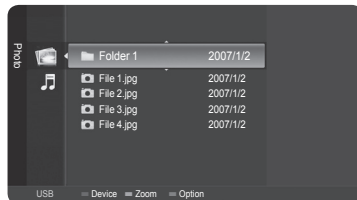
Zoom function information icon (Displayed at the top left of the screen).

Icon	Current OSD	Function
	Zoom (x 1)	Restore a photo to its original size.
	Zoom (x 2)	Zoom-in to a photo x2.
	Zoom (x 4)	Zoom-in to a photo x4.
	Pan Up	Pan up to view the upper part of a zoomed-in photo.
	Pan Down	Pan down to view the lower part of a zoomed-in photo.
	Pan Left	Pan left to view the left side of a zoomed-in photo.
	Pan Right	Pan right to view the right side of a zoomed-in photo.

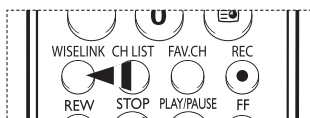
Continued...

Rotating

- 1 After switching the mode to **WISELINK**, select a memory device that you have installed. (Refer to page 50~51)
- 2 Press the **ENTER/OK** button to select **Photo**. JPEG files and existing folders are displayed.
- 3 Press the **▲** or **▼** button to select a photo, then press the **ENTER/OK** button.
 - Pressing the button over a photo icon shows the currently selected photo in full screen.
- 4 Press the **TOOLS** button.
 - Press the **▲** or **▼** button to select **Rotate**, then press the **ENTER/OK** button.
 - Press the **◀** or **▶** button to rotate the photo by the required amount.
 - Whenever you press the **◀** button, it rotates by 270°, 180°, 90°, and 0°.
 - Whenever you press the **▶** button, it rotates by 90°, 180°, 270°, and 0°.
 - Rotating directly from 90 degrees to 270 degrees is not allowed.
- 5 To exit WISELINK mode, press the **EXIT** button on the remote control.
 - The rotated file is not saved.
 - If you have select **ZOOM**, the Rotate function is deactivate



- Press the **WISELINK** button on the remote control to turn on the WISELINK mode.



The Rotating function information icon (Displayed at the top left of the screen).

Icon	Current OSD	Function
270°	Rotating (270°)	To rotate a photo by 270 degrees
180°	Rotating (180°)	To rotate a photo by 180 degrees
90°	Rotating (90°)	To rotate a photo by 90 degrees
0°	Rotating (0°)	To rotate a photo to its original state

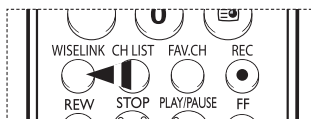
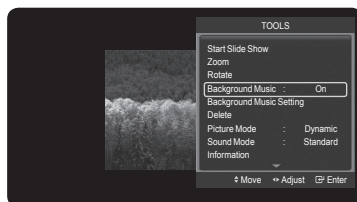
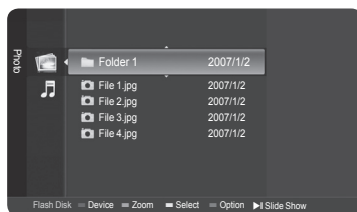
Continued...

Background Music On/Off

If you set **Background Music On**, the background music will be played when viewing photos one by one or in a **Slide Show**.

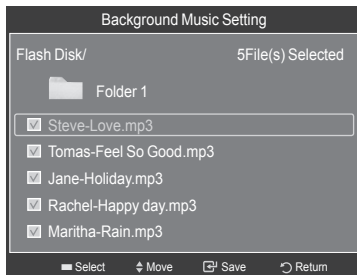
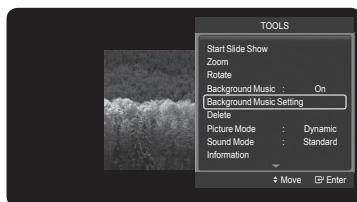
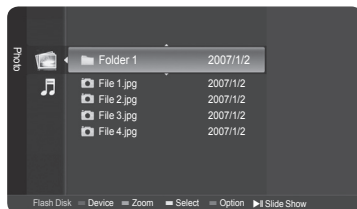
- 1 After switching the mode to **WISELINK**, select a memory device that you have installed. (Refer to page 50~51)
- 2 Press the **ENTER/OK** button to select **Photo**. JPEG files and existing folders are displayed.
- 3 Press the **▲** or **▼** button to select a photo, then press the **ENTER/OK** button.
 - Pressing the button over a photo icon shows the currently selected photo in full screen.
- 4 Press the **TOOLS** button.
 - Press the **▲** or **▼** button to select **Background Music**, then press the **◀** or **▶** button to select **On** or **Off**.
 - **On**: When the background music is available, if you select On, the music is played back.
 - **Off**: Background music is not played.
- 5 To exit **WISELINK** mode, press the **EXIT** button on the remote control.

- Press the **WISELINK** button on the remote control to turn on the **WISELINK** mode.



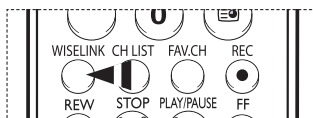
Background Music Setting

- 1 After switching the mode to **WISELINK**, select a memory device that you have installed. (Refer to page 50~51)
 - 2 Press the **ENTER/OK** button to select **Photo**. JPEG files and existing folders are displayed.
 - 3 Press the **▲** or **▼** button to select a photo, then press the **ENTER/OK** button.
 - Pressing the button over a photo icon shows the currently selected photo in full screen.
 - 4 Press the **TOOLS** button.
 - Press the **▲** or **▼** button to select **Background Music Setting**, then press the **ENTER/OK** button. The music (MP3) files are listed.
 - 5 Press the **▲** or **▼** button to select a particular music file and press the yellow button.
 - The **<✓>** mark appears to the left of the selected music (MP3).
 - Repeat the above operation to select multiple music files.
 - 6 Press the **ENTER/OK** button to save the current selections.
 - 7 To exit **WISELINK** mode, press the **EXIT** button on the remote control.
- If you turn Off the Background Music, even if the Background Music Settings have been set up, the background music will not be played.



Continued...

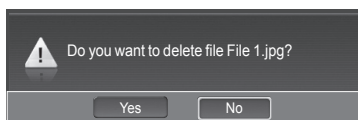
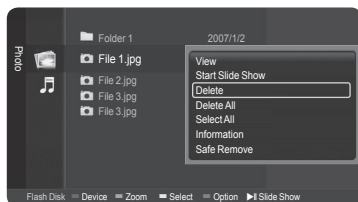
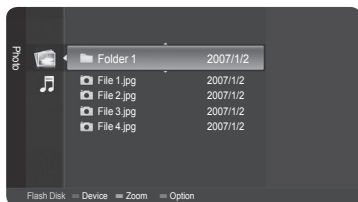
- Press the **WISELINK** button on the remote control to turn on the WISELINK mode.



Deleting the Photo files

You can delete photo (JPEG) files saved on a USB storage device.

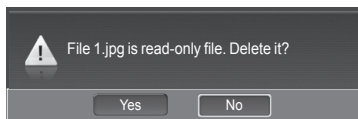
- 1 After switching the mode to **WISELINK**, select a memory device that you have installed. (Refer to page 50~51)
- 2 Press the **ENTER/OK** button to select **Photo**. JPEG files and existing folders are displayed.
- 3 Press the **▲** or **▼** button to select a photo you want to delete and then press the blue button.
- 4 Press the **▲** or **▼** button to select **Delete** or **Delete All** and then press the **ENTER/OK** button.
 - If you select **Delete**, only the selected photo will be deleted.
 - If you select **Delete All**, all photos in the folder will be deleted.
- 5 Press the **◀** or **▶** button to select **Yes** and press the **ENTER/OK** button.
 - The photo will be deleted.
 - If you select **No**, the deletion is cancelled.
- 6 To exit WISELINK mode, press the **EXIT** button on the remote control.
 - You cannot remove the following files:
 - ◆ PTP-connected digital camera picture files
 - ◆ Read-only files
 - While removing files, don't remove the USB memory device.
 - You cannot recover a deleted photo file.



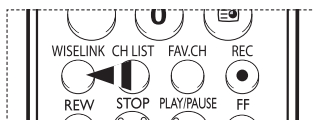
Removing read-only files

When removing any read-only files, the screen to the right appears.

- Press the **◀** or **▶** button to select **Yes**, then press the **ENTER/OK** button.
- If you select **No**, the removing operation is cancelled.



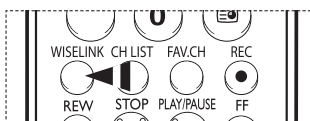
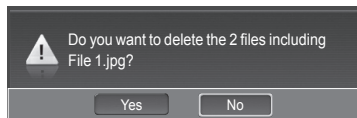
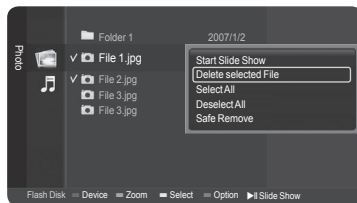
- Press the **WISELINK** button on the remote control to turn on the WISELINK mode.



Continued...

Deleting Multiple Photos

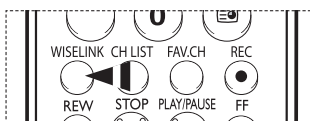
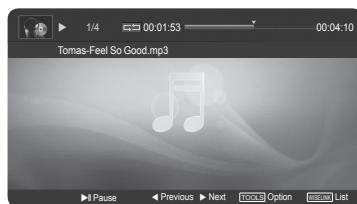
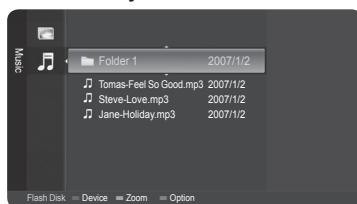
- 1 In the Photo list, press the **▲** or **▼** button to select a photo to be deleted and press the yellow button.
 - The **<✓>** mark appears to the left of the selected photo.
 - Repeat the above operation to select multiple photos.
 - 2 Press the blue button, press the **▲** or **▼** button to select **Delete selected File** and press the **ENTER/OK** button.
 - 3 Press the **◀** or **▶** button to select **Yes** and press the **ENTER/OK** button.
 - The selected photos are deleted.
 - If you select **No**, the deletion will be cancelled.
 - 4 To exit WISELINK mode, press the **EXIT** button on the remote control.
- You cannot remove the read-only files from the selected ones.
 - You cannot restore the removed pictures.
 - Press the **WISELINK** button on the remote control to turn on the WISELINK mode.



Using the Music (MP3) List

You can play back the MP3 files saved on a memory device in various ways.

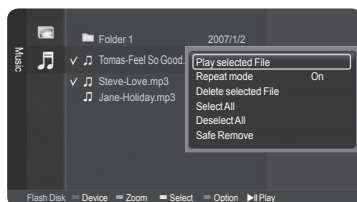
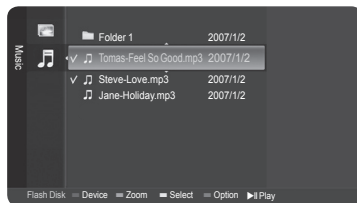
- 1 After switching the mode to WISELINK, select a memory device that you have installed. (Refer to page 50~51)
 - 2 Press the **▲** or **▼** button to select **Music**, then press the **ENTER/OK** button. MP3 files and existing folders are displayed.
 - 3 Press the **▲** or **▼** button to select a music to be played, then press the **ENTER/OK** button.
 - Pressing the **ENTER/OK** button while a music file is highlighted immediately plays the music file.
 - Pressing the **ENTER/OK** button while a folder is highlighted shows the music files in the folder.
 - To select a file on the next page, press the **REW** or **FF** button.
 - Pressing the **◀** or **▶** button while playing a music file will let you play another music file in the same folder.
 - To play back the files repeatedly, change the setting by referring to page 61.
 - 4 Press the **PLAY/PAUSE** button while playing an MP3 file to pause the file. Press the **STOP** button to stop playback.
 - 5 To exit WISELINK mode, press the **EXIT** button on the remote control.
 - This menu shows only the files whose extension is mp3. Files with other extensions are not displayed, even if they have been saved on the same memory device.
 - The selected file is displayed on the top of the screen with its playing time.
 - To adjust the music volume, press the **VOL+** or **VOL-** button on the remote control.
 - To mute the sound, press the **MUTE** button on the remote control.
 - To move to the music list while playing a music file, press the **WISELINK** button.
- Press the **WISELINK** button on the remote control to turn on the WISELINK mode.



Continued...

Playing a Selected Music File

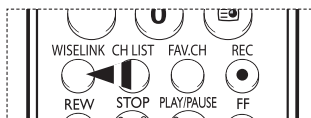
- 1 In the Music list, press the ▲ or ▼ button to select a music file and then press the yellow button.
 - The <✓> mark appears to the left of the selected music.
 - Repeat the above operation to select multiple music files.
- 2 Press the blue button, then press the **ENTER/OK** button to select **Play selected File**.
- 3 To exit WISELINK mode, press the **EXIT** button on the remote control.
 - The selected music files are played.



Music function information icon (Displayed at the top left of the screen).

Icon	Current OSD	Function
	(Music) One Repeat	When a music file is repeated.
	(Music) One	When a music file is played once.
	(Music) Play/Pause	When pressing the PLAY/PAUSE button on the remote control while music is playing. The music stops and the 'Play' text appears at the top of the screen.

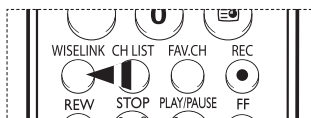
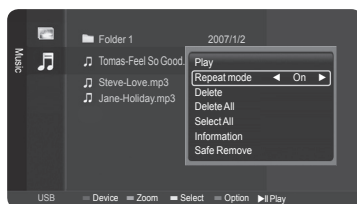
- Press the **WISELINK** button on the remote control to turn on the WISELINK mode.



Repeating Music Play

You can play music repeatedly.

- 1 After switching the mode to WISELINK, select a memory device that you have installed. (Refer to page 50~51)
 - 2 Press the ▲ or ▼ button to select **Music**, then press the **ENTER/OK** button. MP3 files and existing folders are displayed.
 - 3 Press the ▲ or ▼ button to select a music, then press the blue button. Press the ▲ or ▼ button to select **Repeat mode**, then press the ◀ or ▶ button to select **On**. To cancel **Repeat mode**, select **Off**.
 - 4 To exit WISELINK mode, press the **EXIT** button on the remote control.
- Press the **WISELINK** button on the remote control to turn on the WISELINK mode.

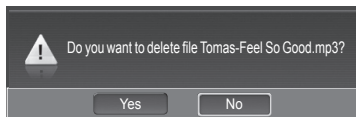
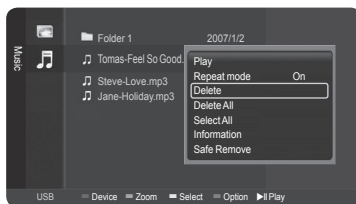


Continued...

Deleting the Music files

You can delete music (MP3) files saved on the USB storage device.

- 1 After switching the mode to WISELINK, select a memory device that you have installed. (Refer to page 50~51)
 - 2 Press the ▲ or ▼ button to select **Music**, then press the **ENTER/OK** button.
MP3 files and existing folders are displayed.
 - 3 Press the ▲ or ▼ button to select a music file to be deleted and then press the blue button.
 - 4 Press the ▲ or ▼ button to select **Delete** or **Delete All** and then press the **ENTER/OK** button.
 - If you select **Delete**, only the selected music will be deleted.
 - If you select **Delete All**, all music files in the selected folder are deleted.
 - 5 Press the ◀ or ▶ button to select **Yes** and press the **ENTER/OK** button.
 - The music will be deleted.
 - If you select **No**, the deletion will be cancelled.
- You cannot remove the following files:
 - ◆ Read-only files
 - While removing any files, don't remove the USB memory device.
 - You cannot restore a deleted music file.



Removing read-only files

When removing read-only files, the screen to the right appears.

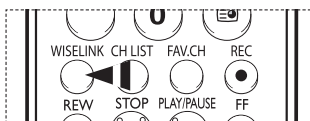
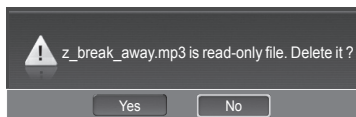
Press the ◀ or ▶ button to select **Yes**, then press the **ENTER/OK** button.

The music files are removed.

- If you select **No**, the removing operation is cancelled.

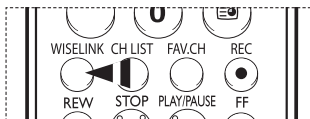
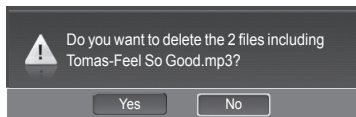
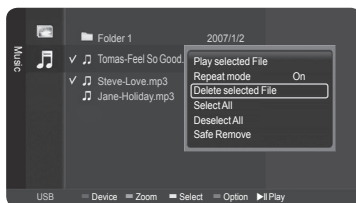
To exit WISELINK mode, press the **EXIT** button on the remote control.

- Press the **WISELINK** button on the remote control to turn on the WISELINK mode.



Deleting Multiple Music Files

- 1 In the Music list, press the ▲ or ▼ button to select a music file to be deleted and press the yellow button.
 - The <✓> mark appears to the left of the selected music file.
 - Repeat the above operation to select multiple music files.
 - 2 Press the blue button, press the ▲ or ▼ button to select **Delete selected File** and press the **ENTER/OK** button.
 - 3 Press the ◀ or ▶ button to select **Yes** and press the **ENTER/OK** button.
 - The selected music files will be deleted.
 - If you select **No**, the deletion will be cancelled.
 - 4 To exit WISELINK mode, press the **EXIT** button on the remote control.
- You cannot remove the read-only files from the selected ones.
 - You cannot restore the removed pictures.
 - Press the **WISELINK** button on the remote control to turn on the WISELINK mode.



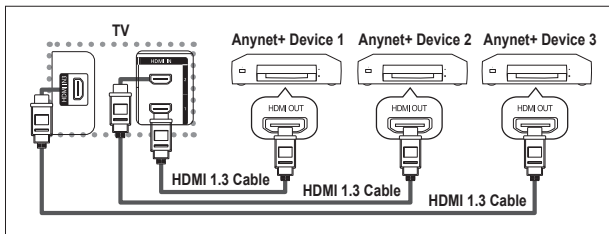
What is Anynet+?

Anynet+ is an AV network system that enables you to control all connected Samsung AV devices with your Samsung TV's remote.

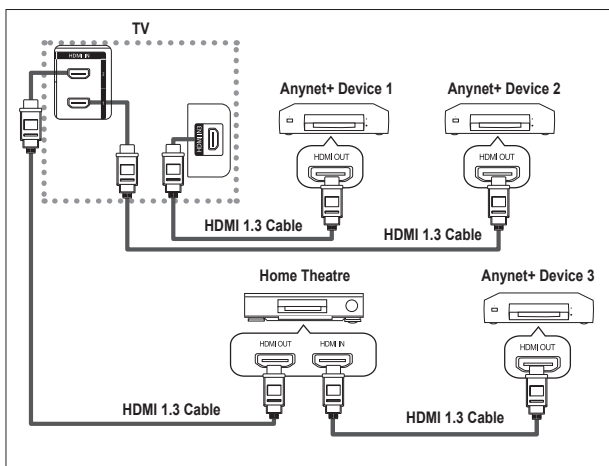
Connecting Anynet+ Devices

The Anynet+ system can be used only with Samsung AV devices that have the Anynet+ feature. To be sure your Samsung AV device has this feature, check if there is an Anynet+ mark on it.

To directly connect to TV



Connect the [HDMI 1], [HDMI 2] or [HDMI 3] jack on the TV and the HDMI OUT jack of the corresponding Anynet+ device using the HDMI cable.



To connect to Home Theatre

- 1 Connect the [HDMI 1], [HDMI 2] or [HDMI 3] jack on the TV and the HDMI OUT jack of the corresponding Anynet+ device using the HDMI cable.
- 2 Connect the HDMI IN jack of the home theatre and the HDMI OUT jack of the corresponding Anynet+ device using the HDMI cable.

- Connect the Optical cable between [Digital Audio Out (Optical)] on your TV and Digital Audio Input on the Home Theatre.
- Connect only one Home Theatre.
- When following the connection above, the Optical jack only outputs 2 channel audio. You will only hear sound from the Home Theatre's Front Left and Right speakers and the subwoofer. If you want to hear 5.1 channel audio, connect the DIGITAL AUDIO OUT (OPTICAL) jack on the DVD player or Cable/Satellite Box (ie Anynet Device 1 or 2) directly to the Amplifier or Home Theatre, not the TV. Please see the home theatre's user manual for more information.
- You can connect an Anynet+ device using the HDMI 1.3 cable. Some HDMI cables may not support Anynet+ functions.
- Anynet+ works when the AV device supporting Anynet+ is in the Standby or On status.
- Anynet+ supports up to 8 AV devices in total.

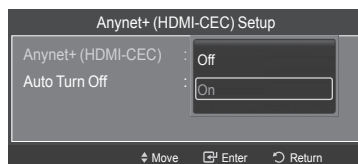
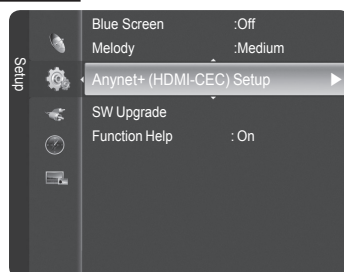
Setting Up Anynet+

The following settings help set the Anynet+ functions.

To use the Anynet+ Function, Anynet+ (HDMI-CEC) must be set to On

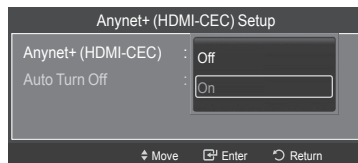
- 1 Press the **MENU** button to display the menu.
Press the **▲** or **▼** button to select **Setup**, then press the **ENTER/OK** button.
- 2 Press the **▲** or **▼** button to select **Anynet+ (HDMI-CEC) Setup**, then press the **ENTER/OK** button.
- 3 Press the **ENTER/OK** button to select **Anynet+ (HDMI-CEC) Setup**, then press the **ENTER/OK** button.
- 4 Press the **▲** or **▼** button to select **On**, then press the **ENTER/OK** button.

- The Anynet+ function is enabled.
- If you select **Off**, Anynet+ is disabled.
- When the Anynet+ (HDMI-CEC) function is disabled, all the Anynet+ related operations are deactivated.



Setting an Anynet+ Device to turn Off Automatically when the TV is Turned Off

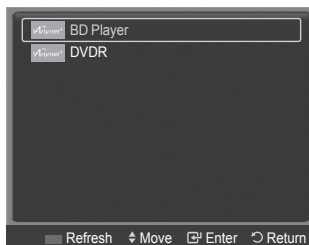
- 3 Press the **▲** or **▼** button to select **Auto Turn Off**, then press the **ENTER/OK** button.
- 4 Press the **▲** or **▼** button to select **On**, then press the **ENTER/OK** button.
 - The Auto Turn Off function is enabled.
 - If you select **Off**, the Auto Turn Off function is cancelled.Press the **EXIT** button to exit.



- The active source on the TV remote must be set to TV to use the Anynet+ function.
- If you set the Anynet+ (HDMI-CEC) to On, the Device List menu appears when you press the **TOOLS** button on the remote control.
- If you set Auto Turn Off to On, connected external devices are also turned off when the TV is turned off. However, if the device is recording, it may not be turned off.

Scanning and Switching between Anynet+ Devices

- 1 Press the **Anynet+** button.
Press the **ENTER/OK** button to select **Device List**.
 - Anynet+ devices connected to the TV are listed.
 - If you cannot find a device you want, press the red button to scan for devices.
- 2 Press the **▲** or **▼** button to select to a particular device and press the **ENTER/OK** button. It is switched to the selected device.
 - Only when you set Anynet+ (HDMI-CEC) to On in the Setup menu, the Device List menu appears.
 - Switching to the selected devices may take up to 2 minutes. You cannot cancel the operation during the switching operation.
 - The time required to scan for devices is determined by the number of connected devices.
 - When the device scan is complete, the number of devices found is not displayed.
 - Although the TV automatically scans devices when it is turned on using the **POWER** button, devices connected when the TV is already on are not displayed in the device list. Therefore press the red button to re-scan devices if necessary.
 - If you have selected an external device by pressing the **SOURCE** button, you cannot use the Anynet+ function. Make sure to switch to an external Anynet+ device by using the **Anynet+** button.



Anynet+ Menu

The Anynet+ menu changes depending on the type and status of the Anynet+ devices connected to the TV.

Anynet+ Menu	Description
View TV	Switches from Anynet+ to TV broadcast mode.
Device List	Displays the Anynet+ device list.
Menu on Device	Shows the menu of the connected device. Example. When a DVD Recorder is connected, the DVD Recorder's title menu appears.
Device Operation	Shows the play control menu of the connected device. Example. When a DVD Recorder is connected, the play control menu of the DVD Recorder appears.
Record	Starts a recording immediately. (This menu works only for a device supporting recording.)
Timer Recording	Allows reserving a recording. (This menu works only for a device supporting recording reservations.)
Stop Recording	Stops recording.
Receiver	Sound is output through the receiver (home theatre).

Continued...

TV Remote Control Buttons Available in Anynet+ Mode

Device Type	Operating Status	Available Buttons
Anynet+ Device	After switching to the device, when the menu of the corresponding device is displayed on the screen.	Numeric buttons ▲/▼/◀/▶/ENTER buttons Colour buttons EXIT button
	After switching to the device, while playing a file	◀◀(Backward search) ▶▶(Forward search) ■(Stop) ⏮(Play/Pause)
Device with built-in Tuner	After switching to the device, when you are watching a TV program	CH ▲/▼ button
Audio Device	When Receiver is activated	VOL +/- button MUTE button

- The Anynet+ function only works when the remote control is set to TV.
- The **REC** button works only in View TV status.
- You cannot control Anynet+ devices using the buttons on the side of the TV. You can control Anynet+ devices only using the TV remote control.
- The TV remote control may not work under certain conditions. In this case, re-select the Anynet+ device.
- The Anynet+ functions don't operate for the products from other manufacturers.
- The Anynet+ functions do not work with other manufacturers' products.
- The ◀◀, ▶▶ operations may differ depending on the device.

Recording

You can make a recording of a TV program using a recorder.

- 1 Press the **Anynet+** button.
- 2 Press the ▲ or ▼ button to select to **Record** Immediately and press the **ENTER/OK** button.
Recording begins.

When there are more than one recording device

When multiple recording devices are connected, the recording devices are listed. Press the ▲ or ▼ button to select to a recording device and press the **ENTER/OK** button. Recording begins.

When the recording device is not displayed

Select **Device List** and press the red button to search devices. Press the **EXIT** button to exit.

- You can record instantly using the **REC** button of the TV remote control.
- The current TV program is recorded in the Watching TV status. If you are watching video from another device, the video from the device is recorded.
- Before recording, check whether the antenna jack is properly connected to the recording device. For the antenna connection to the recording device, refer to its user manual.



Listening through a Home theatre

You can listen to sound through a receiver (home theatre) instead of the TV's speakers.

- 1 Press the **Anynet+** button.
 - 2 Press the **▲** or **▼** button to select **Receiver**, press the **◀** or **▶** button to select to **On**. Now you can listen to sound through the Home theatre receiver.
Press the **EXIT** button to exit.
- When the receiver (home theatre) is set to On, you can hear sound output from the TV's Optical jack. When the TV is displaying a DTV(air) signal, the TV will send out 5.1 channel sound to the Home theatre receiver. When the source is a digital component such as a DVD and is connected to the TV via HDMI, only 2 channel sound will be heard from the Home Theatre receiver.
 - If your Home Theatre receiver supports audio only, it may not appear in the device list.
 - The receiver will work when you have properly connected the Optical IN jack of the receiver to the Optical Out jack of the TV.
 - When using the WISELINK feature, sound may not output properly through the receiver.
 - When listening through the receiver, there are restrictions for using the PIP and audio-related(MTS, Preferred language) menus.

Troubleshooting for Anynet+

Symptom	Solution
Anynet+ does not work.	■ Check if the device is an Anynet+ device. The Anynet+ system supports Anynet+ devices only. ■ Connect only one receiver (home theatre). ■ Check if the Anynet+ device power cord is properly connected. ■ Check the Anynet+ device's Video/Audio/HDMI cable connections. ■ Check whether the TV remote control is in TV mode. ■ Check whether it is Anynet+ exclusive remote control. ■ Anynet+ doesn't work at a certain condition. (Searching channels, operating WISELINK) ■ When connecting or removing the HDMI cable, please make sure to search devices again or restart your TV. ■ Check if the Anynet+ Function of Anynet+ device is set on.
I want to start Anynet+.	■ Check if the Anynet+ device is properly connected to the TV and check if the Anynet+ (HDMI-CEC) is set to On in the Anynet+ Setup menu. ■ Press the TV button on the TV remote control to switch to TV. Then press the Anynet+ button to show the Anynet+ menu and select a menu you want.
I want to exit Anynet+.	■ Select View TV in Anynet+ menu. ■ Press the SOURCE button on the TV remote control and select a device other than Anynet+ devices. ■ Press any of CH, CH LIST, PRE-CH, and FAV.CH to change to the TV mode. (Note that the channel button operates only when an Anynet+ device with a built-in tuner is not connected.)
The Connecting to Anynet+ device...message appears on the screen.	■ You cannot use the remote control when you are configuring Anynet+ or switching to a view mode. ■ Use the remote control when the Anynet+ setting or switching to view mode is complete.
The Anynet+ device does not play.	■ You cannot use the play function when Plug & Play is in progress.
The connected device is not displayed.	■ Check whether or not the device supports Anynet+ functions. ■ Check whether or not the HDMI cable is properly connected. ■ Check whether <Anynet+ (HDMI-CEC) Setup> is set to <On> in the Anynet+ setup menu. ■ Search Anynet+ devices again. ■ You can connect an Anynet+ device using the HDMI cable only. Some HDMI cables may not support Anynet+ functions.
The TV program cannot be recorded.	■ Check whether the antenna jack on the recording device is properly connected.
The TV sound is not output through the receiver.	■ Connect the optical cable between TV and the receiver.

Teletext Feature (depending on the model)

Most television stations provide written information services via teletext. The index page of the teletext service gives you information on how to use the service. In addition, you can select various options to suit your requirements by using the remote control buttons.

- ☛ For teletext information to be displayed correctly, channel reception must be stable. Otherwise, information may be missing or some pages may not be displayed.

1 RETURN

Exit from the teletext display (depending on the model)

2 [Index] (index)

Used to display the index (contents) page at any time while you are viewing teletext.

3 [Teletext on/mix]

Press to activate teletext mode after selecting the channel providing the teletext service. Press it twice to overlap the teletext with the current broadcasting screen.

4 [Size] (size)

Press to display the double-size letters in the upper half of the screen. For lower half of the screen, press it again. To display normal screen, press it once again.

5 [Mode] (mode)

Press to select the teletext mode (LIST/FLOF).

If you press it in the LIST mode, it switches into the List save mode.

In the List save mode, you can save teletext page into list using the [Store] button.

6 [Sub-page] (sub-page)

Used to display the available sub-page.

7 [Page up] (page up)

Used to display the next teletext page.

8 [Page down] (page down)

Used to display the previous teletext page.

9 [Cancel] (cancel)

Used to display the broadcast when searching for a page.

10 [Reveal] (reveal)

Used to display the hidden text (answers to quiz games, for example). To display normal screen, press it again.

11 Coloured buttons (red/green/yellow/blue)

If the FASTEXT system is used by a broadcasting company, the different topics covered on a teletext page are colour-coded and can be selected by pressing the coloured buttons. Press one of them corresponding to the required. The page is displayed with other coloured information that can be selected in the same way.

To display the previous or next page, press the corresponding coloured button.

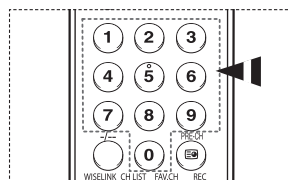
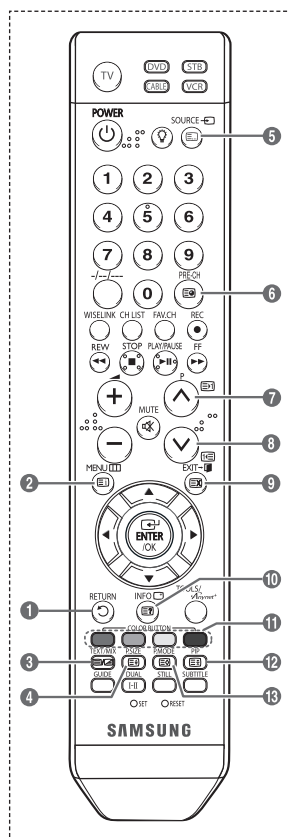
12 [Hold] (hold)

Used to hold the display on a given page if the selected page is linked with several secondary pages which follow on automatically. To resume, press it again.

13 [Store] (store)

Used to store the teletext pages.

- You can change teletext pages by pressing the numeric buttons on the remote control.

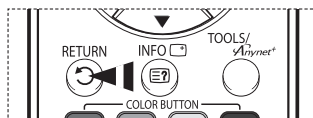
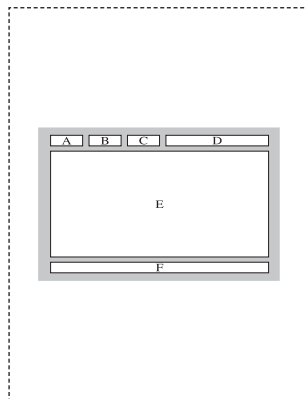


Continued...

The teletext pages are organized according to six categories:

Part	Contents
A	Selected page number.
B	Broadcasting channel identity.
C	Current page number or search indications.
D	Date and time.
E	Text.
F	Status information. FASTEXT information.

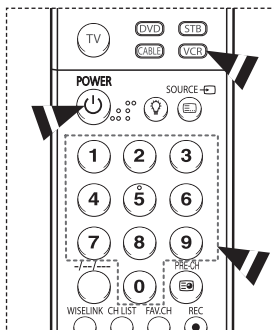
- Teletext information is often divided between several pages displayed in sequence, which can be accessed by:
 - ◆ Entering the page number
 - ◆ Selecting a title in a list
 - ◆ Selecting a coloured heading (FASTEXT system)
- Press the **RETURN** button to exit from the teletext display.



Setting Up Your Remote Control

After it has been set up properly, your remote control can operate in five different modes: **TV**, **VCR**, **Cable**, **DVD**, or **Set-Top Box**. Pressing the corresponding button on the remote control allows you to switch between these modes, and control whichever piece of equipment you choose.

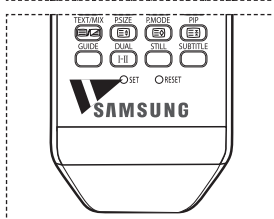
➤ The remote control might not be compatible with all DVD Players, VCRs, Cable boxes, and Set-Top Boxes.



Setting Up the Remote to Operate Your VCR

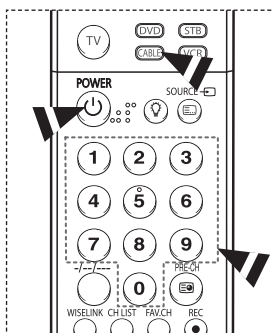
- 1 Turn off your VCR.
- 2 Press the **VCR** button on your TV's remote control.
- 3 Press the **SET** button on your TV's remote control.
- 4 Using the number buttons on your remote control, enter three digits of the VCR code listed on page 72 of this manual for your brand of VCR. Make sure you enter three digits of the code, even if the first digit is a "0". (If more than one code is listed, try the first one.)
- 5 Press the **POWER** button on the remote control. Your VCR should turn on if your remote is set up correctly.

If your VCR does not turn on after set-up, repeat steps 2, 3 and 4, but try one of the other codes listed for your brand of VCR. If no other codes are listed, try each VCR code, 000 through 080.



Note on Using Remote Control Modes: VCR

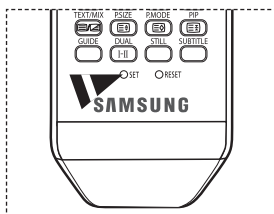
When your remote control is in **VCR** mode, the volume buttons still control your TV's volume.



Setting Up the Remote to Operate Your Cable Box

- 1 Turn off your cable box.
- 2 Press the **CABLE** button on your TV's remote control.
- 3 Press the **SET** button on your TV's remote control.
- 4 Using the number buttons on your remote control, enter three digits of the cable box code listed on page 73 of this manual for your brand of cable box. Make sure you enter three digits of the code, even if the first digit is a "0". (If more than one code is listed, try the first one.)
- 5 Press the **POWER** button on the remote control. Your cable box should turn on if your remote is set up correctly.

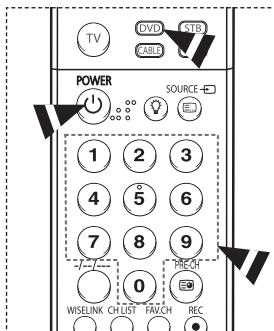
If your cable box does not turn on after set-up, repeat steps 2, 3 and 4, but try one of the other codes listed for your brand of cable box. If no other codes are listed, try each code, 000 through 046.



Note on Using Remote Control Modes: Cable Box

When your remote control is in **CABLE** mode, the volume buttons still control your TV's volume.

Continued...

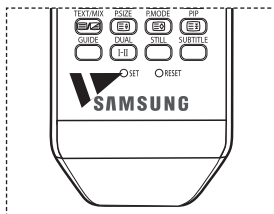


Setting Up the Remote to Operate Your DVD

- 1 Turn off your DVD.
- 2 Press the **DVD** button on your TV's remote control.
- 3 Press the **SET** button on your TV's remote control.
- 4 Using the number buttons on your remote control, enter three digits of the DVD code listed on page 74 of this manual for your brand of DVD. Make sure you enter three digits of the code, even if the first digit is a "0". (If more than one code is listed, try the first one.)
- 5 Press the **POWER** button on the remote control.

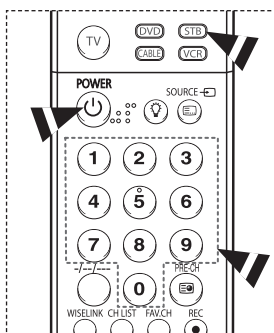
Your DVD should turn on if your remote is set up correctly.

If your DVD does not turn on after set-up, repeat steps 2, 3 and 4, but try one of the other codes listed for your brand of DVD. If no other codes are listed, try each code, 000 through 141.



Note on Using Remote Control Modes: DVD

When your remote control is in **DVD** mode, the volume buttons still control your TV's volume.

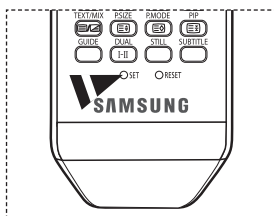


Setting Up the Remote to Operate Your Set Top Box

- 1 Turn off your STB.
- 2 Press the **STB** button on your TV's remote control.
- 3 Press the **SET** button on your TV's remote control.
- 4 Using the number buttons on your remote control, enter three digits of the STB code listed on page 73 of this manual for your brand of STB. Make sure you enter three digits of the code, even if the first digit is a "0". (If more than one code is listed, try the first one.)
- 5 Press the **POWER** button on the remote control.

Your STB should turn on if your remote is set up correctly.

If your STB does not turn on after set-up, repeat steps 2, 3 and 4, but try one of the other codes listed for your brand of STB. If no other codes are listed, try each code, 000 through 074.



Note on Using Remote Control Modes: STB

When your remote control is in **STB** mode, the volume buttons still control your TV's volume.

Continued...

Remote Control Codes

VCR

Brand	Code
SAMSUNG	000 001 002 003 004 005 077 078 079
ADMIRAL	020
AIWA	025
AKAI	004 027 032
AUDIO DYNAMICS	007 026
BELL&HOWELL	018
BROKSONIC	022
CANDLE	002 003 006 008 015 055
CANON	021 056
CITIZEN	002 003 006 008 015 055
ColorTYME	007
CRAIG	002 024
CURTIS MATHES	002 007 008 017 021 025 056 064 066
DAEWOO	003 010 011 012 013 014 015 016
DB	007 026
DIMENSIA	017
DYNATECH	025
ELECTROHOME	034
EMERSON	001 003 006 021 022 025 030 032 034 040 047 050 052 060 063 065 066 067 069 073
FISHER	018 024 028 029 048 051 061
FUNAI	025
GENERAL ELECTRIC	002 005 017 021 056
GO VIDEO	002
LG(Goldstar)	006 007 008 009 010
HARMAN KARDON	007
HITACHI	019 025 041 042 074
INSTANT REPLAY	021
JC PENNEY	002 007 018 019 021 026 037 041 054 056
JCL	007 008 018 021 026 037
KENWOOD	007 008 018 026 037
KLH	070
LLOYD	025
LOGIK	038
LXI	025
JVC	081 082 083
MAGNAVOX	021 056 059
MARANTZ	007 008 018 021 026 037 062
MARTA	006
KONIA	036
ORION	073 074 075 076
MEI	021
MEMOREX	006 021 024 025
MGA	034
MIDLAND	005
MINOLTA	019 041 075

Brand	Code
mitsubishi	019 034 041 046
MONTGOMERY WARD	020
MTC	002 025
MULTITECH	002 005 025 038
NEC	007 008 018 026 037 062 064
OPTIMUS	020
PANASONIC	021 056 071 072
PENTAX	019 041 075
PENTEX RESEARCH+	008
PHILCO	021 056 059
PHILIPS	021 080
PIONEER	019 026 039 053
PORTLAND	015 049 055
PROSCAN	017
QUARTZ	018
QUASAR	021 056
RADIO SHACK/ REALISTIC	006 018 020 021 024 025 029 034 048 056
RCA	002 017 019 021 035 041 043 057 068 076
SANSUI	026
SANYO	018 024
SCOTT	003 047 052 067
SEARS	006 018 019 024 028 029 041 048 051
SHARP	020 034 045 015
SHIMTOM	027 033 038 058
SIGNATURE	025
SONY	027 033 044
SYLVANIA	021 025 056 059
SYMPHONIC	025
TANDY	018 025
TASHIKA	006
TATUNG	037
TEAC	025 037 068
TECHNICS	021
TEKNIKA	006 021 025 031
TMK	066
TOSHIBA	003 019 029 051 052
TOTEVISION	002 006
UNITECH	002
VECTOR RESEARCH	007 026
VICTOR	026
VIDEO CONCEPTS	007 026
VIDEOSONIC	002
WARDS	002 003 006 019 020 021 024 025 034 038 041
YAMAHA	007 008 018 026 037
ZENITH	023 027 033

Continued...

CABLE BOX

Brand	Code
SAMSUNG	000 001 002 003 004 005 006 007
GI	041
HAMLIN	003 024 031
HITACHI	025 030
JERROLD	038 039
MACOM	025 030
MAGNAVOX	019 023 028
OAK	026
PANASONIC	003 022 027 037 044
PHILIPS	019 021 023 028
PIONEER	004 018 020 044
RCA	014 022 040
REGAL	003

Brand	Code
REGENCY	015 023
SA	042 043
SCIENTIFIC ATLAN	042 043
SPRUCER	022
STARGATE 2000	036
SYLVANIA	016
TEXSCAN	016
TOCOM	032
UNIVERSAL	033 034
VIEWSTAR	019 021 023 028
WARNER AMEX	046
ZENITH	017 029 035 037 045

SAMSUNG SET-TOP BOX

Product	Code
Ground wave STB	000 001 002 008 013
CABLE STB	000 004 008 013
Satellite STB	000 003 008 013

SET-TOP BOX

Brand	Code
ALPHASTAR	023
ANAM	043
CHANNEL MASTER	018 034
CROSSDIGITAL	019
CHAPARRAL	035
DIRECT TV	015 016 017 019 022 045 060 061 062 065 066 067 068
DAEWOO	074
DISH NETWORK SYSTEM	069 070
DISHPRO	069
DRAKE	018 024 032
DX ANTENNA	027
ECHOSTAR	025 069 070 071
EXPRESSVU	069
GOI	069
GE	065
GENERAL INSTRUMENT	046 047 048 063 064
HTS	069
HOME CABLE	056
HITACHI	022
HUGHES NETWORK	015 017
IQ	020
IQ PRISM	020
JANEIL	059
JERROLD	063
JVC	069 070

Brand	Code
LG(Goldstar)	044 073
MAGNAVOX	016 021 036 038 039 040 041 042
MEMOREX	016
MOTOROLA	064
MACOM	018
MITSUBISHI	015
NEXT LEVEL	047 048 064
PHILIPS	015 016 017 021 033 036 038 039 040 041 042 067
PRIMESTAR	046 049 050 063
PANASONIC	058 059 061 062
PAYSAT	016
PROSCAN	065 066
RCA	051 052 053 065 066
RADIOSHACK	064
REALISTIC	057
STS	020 027
STAR TRAK	026
SKY	031
SKY LIFE	005 006 007
SHACK	064
STAR CHOICE	064
SONY	054 060
TOSHIBA	015 017 028 029 030 072
ULTIMATE TV	060 066
UNIDEN	016 021 037 055 056 057
ZENITH	024 031 068

Continued...

SAMSUNG DVD

Product	Code
DVD	000 001 002
DVDR	003 004
BD Record	005 006
VCR COMBO	007 008 009 010 011
VCR Record	012
DHR COMBO	013

DVD

Brand	Code
ANAM	030
AUDIOVOX	075
AUDIOLOGIC	085
ANABA	072
APEX DIGITAL	070 071 074 086 083 084 088 111 112
AIWA	114
BROKSONIC	062
BLAUPUNKT	074
B&K	122 123
CURTIS MATHES	027
CYBER HOME	065 077 078 079 082
CLARION	080 125
CIRRUS	081
CINEVISION	095
DAEWOO	066
DENON	146
FARENHEIT	067 068
FISHER	090
GPX	060
GO VIDEO	061 089 133 135
GE	069 074
GREENHILL	074
HITACHI	064 113
HITEKER	071
HOYO	073
HARMAN / KARDON	091 110
IRT	089
INTEGRA	092
JBL	091
JVC	022 033 115 116
JATON	073
KENWOOD	051 108 109
KISS	073
KONKA	059 100 106 107
KLH	074 075
LG(Goldstar)	025 031
LOEWE	057
LASONIC	058
MOBILE AUTHORITY	054
MEMOREX	055
MALATA	056
MAGNAVOX	076 093
MINTEK	074 094
MONYKA	073

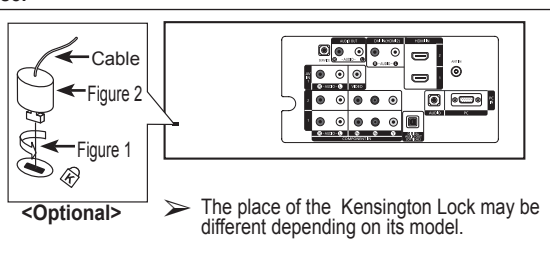
Product	Code
Home theater VCR COMBO	014 015 016
HDD Record COMBO	017
TWIN TRAY COMBO	018
STB DVD COMBO	019
DVD Receiver	020
AV Receiver	021

Brand	Code
NORCENT	048 049 050
NEXT BASE	052
NEC	053
NANTAU	144
NESA	074
OPTOMEDIA ELECTRONICS	105
OPTIVIEW	072
ONKYO	076 092 119
PHILCO	044 045
PRINCETON	046 047
PROSCAN	023
PANASONIC	024 034 124 134 136 137 138
PHILIPS	036 076
ROTEL	117 118
RIO	120
RCA	023 035 074 075 131 132
RAITE	073
ROWA	038
SAMPO	104
SONY	026 029 126 127 128 129 130 141
SHERWOOD	039 041
SVA	042
SYLVANIA	043 093
SHARP	140
SANSUI	062
SANYO	062
SHINSONIC	094
SANYO	090
THOMSON	145
TOSHIBA	028 062 076
TECHNICS	139
VIEW	072
TOKAI	073
TEAC	096
TECHWOOD	097
TREDEX	098 099 101
URBAN CONCEPTS	076
VENTURER	075
VOCOPRO	102
YAMAHA	032 063
YAMAKAWA	040 073
XWAVE	103
ZENITH	076 121

Using the Anti-Theft Kensington Lock (depending on the model)

The Kensington lock is a device used to physically fix the system when using it in a public place. The locking device has to be purchased separately. The appearance and locking method may differ from the illustration depending on the manufacturer. Please refer to the manual provided with the Kensington lock for proper use.

- 1 Insert the locking device into the Kensington slot on the LCD TV (Figure 1), and turn it in the locking direction (Figure 2).
- 2 Connect the Kensington lock cable.
- 3 Fix the Kensington lock to a desk or a heavy stationary object.



Troubleshooting

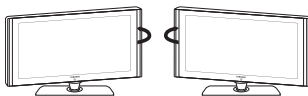
No sound or picture	• Check that the mains lead has been connected to a wall socket. • Check that you have pressed the  button on the front of the set. • Check the picture contrast and brightness settings. • Check the volume.
Normal picture but no sound	• Check the volume. • Check whether the MUTE  button has been pressed on the remote control. • Check if "Internal Mute" is off
Screen is black and power indicator light blinks steadily	• On your computer check; Power, Signal Cable. • The TV is using its power management system. • Move the computer's mouse or press any key on the keyboard.
No picture or black and white picture	• Adjust the colour settings. • Check that the broadcast system selected is correct.
Sound and picture interference	• Try to identify the electrical appliance that is affecting the set and move it further away. • Plug your set into a different mains socket.
Blurred or snowy picture, distorted sound	• Check the direction, location and connections of your aerial. This interference is often due to the use of an indoor aerial.
Remote control malfunctions	• Replace the remote control batteries. • Clean the upper edge of the remote control (transmission window). • Check the battery terminals.
"Check signal cable." message is displayed.	• Check that the signal cable is firmly connected to the PC or video sources. • Check that the PC or video sources are turned on.
On PC mode, "Not Supported Mode." message is displayed.	• Check the maximum resolution and the frequency of the video adaptor. • Compare these values with the data in the Display Modes.
The damaged picture appears in the corner of the screen.	If "Just Scan" is selected in some external devices, the damaged picture may appear in the corner of the screen. This symptom is caused by external devices, not TV.

The TFT LCD panel uses a panel consisting of sub pixels (6 220 800) which require sophisticated technology to produce. However, there may be few bright or dark pixels on the screen. These pixels will have no impact on the performance of the product.

Technical and Environmental Specifications

Model Name	LA40F81BD	LA46F81BD	LA52F81BD
Screen Size (Diagonal)	40 inch	46 inch	52 inch
PC Resolution	1920 x 1080 @ 60 Hz	1920 x 1080 @ 60 Hz	1920 x 1080 @ 60 Hz
Sound Output	10 W X 2	10 W X 2	10 W X 2
Dimensions (WxDxH)			
Body	1094 x 103 x 607 mm	1222 x 111 x 687 mm	1366 x 120 x 780 mm
With stand	1094 x 290 x 675 mm	1222 x 320 x 752 mm	1366 x 320 x 845 mm
Weight			
With stand	24 kg	33 kg	37 kg
Environmental Considerations			
Operating Temperature	10 °C to 40 °C (50 °F to 104 °F)	10 °C to 40 °C (50 °F to 104 °F)	10 °C to 40 °C (50 °F to 104 °F)
Operating Humidity	10 % to 80 %, non-condensing	10 % to 80 %, non-condensing	10 % to 80 %, non-condensing
Storage Temperature	-20 °C to 45 °C (-4 °F to 113 °F)	-20 °C to 45 °C (-4 °F to 113 °F)	-20 °C to 45 °C (-4 °F to 113 °F)
Storage Humidity	5 % to 95 %, non-condensing	5 % to 95 %, non-condensing	5 % to 95 %, non-condensing

Stand Swivel (Left / Right)



-20° ~ 20°

- Design and specifications are subject to change without prior notice.
- This device is a Class B digital apparatus.
- For the power supply and Power Consumption, refer to the label attached to the product.

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